

Comprehensive Summary  
Reference Keys

**Annex B**

**KEY TO MAIN ACCOMPANY MAIN TABLE**

**Only Use Alpha1(%) and Alpha2 (%) worksheets.**

<b>RRI</b>	Protozoal	<10% of control
		<50% of control
		Bold & Underlined P<0.05
	Proteolysis	<80% of control
		<130% of control
		Bold & Underlined P<0.05

<b>UR</b>	Bloat	+ 20% viscosity	+10 % gas	-50% foam height	-50% compression
		- 20% viscosity	-10 % gas	-75% foam height	
	Acidosis	-70% control			
	General fermentation	+ 10% degradation	-10 % gas release		
		+ 10% fermentation efficiency			
		values in <b>bold</b> are significant [P>0.05]			

<b>UL</b>	Methane	Decrease of 10% or more
		Decrease of 0-10%
		Bold & Underlined P<0.05
	General effects	Decrease of 10% or more
		Increase of 10% or more
		Bold & Underlined P<0.05

<b>UHOH</b>	General effects	Decrease of 10% or more
		Increase of 10% or more
		Bold & Underlined P<0.05

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	4-carvomenthenol	Abies nordmannia	Acanthus spinosus	Acer platanoides	aceteugenol	Achillea millefolium	Actinidia deliciosa	Adenocarpus complicatu	Aegopodium podagraria
	<b>Domestic Ref</b>	C003	H078	R115	H076	C002	H001	H075	E009	H002
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.00	3.67	2.83	3.17	3.67	2.50	2.83	4.17	3.00
cum. gas [ml]		123.6	118.8	125.7	124.7	121.9	115.9	129.8	126.3	131.9
foam height	@ 8h	28.5	32.0	42.0	35.0	38.5	30.5	33.0	44.0	30.5
	@ 16h	34.5	32.5	33.0	40.5	33.5	26.5	32.5	30.0	24.0
compression	@ 16h	0.704	0.714	0.580	0.489	0.762	0.433	0.816	0.808	0.642
<b>ACIDOSIS</b>										
pH	@1h	6.54	6.50	6.50	6.63	6.66	6.49	6.67	6.52	6.49
	@24h	5.56	5.60	5.60	5.76	5.61	5.67	5.81	5.66	5.69
	@ 48 h	5.53	5.59	5.59	5.87	5.71	5.70	5.95	5.79	5.62
acidity relative to controls	@24h	81	72	72	89	132	73	79	72	70
	@ 48 h	85	73	72	90	140	62	74	49	77
lactic acid [ $\mu$ M]	@ 48 h	10.1	36.6	17.6	14.5	14.7	<0.5	5.9	7.4	<0.5
<b>GENERAL FERMENTATION</b>										
dmd [ $g\ g^{-1}$ ]	10	99	98	101	98	102	99	97	103	103
	40	90	76	106	94	99	91	79	93	105
cumulative gas [ml, 24 h]	10	98	93	99	94	95	102	95	92	97
	40	87	66	106	86	89	91	62	83	94
fermentation efficiency	10	102	105	103	104	107	97	102	112	106
	40	103	115	100	110	111	101	126	111	113
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10 (%)	101	98	103	99	100	103	100	101	105
	Gas 10 (%)	99	99	106	100	100	103	98	103	107
	Fermn effic 10 (%)	102	98	96	99	99	99	102	97	98
	SCFA 10 (%)	99	98	120	102	98	106	100	107	106
	Microbial biomass	70	101	114	84	62	65	99	121	88
	C3/C2 at 10 (%)	100	96	103	94	99	95	98	98	95
<b>Leon data</b>										
	NDF (%)		45.3	17.0	36.5		45.1	33.6	31.3	30.6
<b>Methane formation</b>										
	Methane formed	107	86	101	92	109	108	87	96	112
<b>General effects</b>										
	Digestibility 10	96	95	106	103	92	97	102	100	97
	App. digestibility10	95	87	102	99	90	99	83	97	84
	Gas 10	100	94	111	97	94	102	103	101	106
	Fermn effic 10	96	103	96	107	97	96	100	99	91
	Microbial biomass	90	100	102	110	88	98	103	104	92
	C3/C2	106	96	97	96	99	102	95	112	101
	TVFA	102	94	115	104	95	90	104	100	94
<b>Rowett data</b>										
	Proteolysis	104.9	74.1	103.7	98.3	121.7	99.3	102.7	85.2	88.8
	Protozoa	101	84	117	101	99	104	102	89	100

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Aesculus hippocastanur	Aesculus hippocastanur	Agastache foeniculum	Agropyron repens	Ajuga reptans	Alcea rosea	Alchemilla alpina	Alchemilla vulgaris	Alchemilla xanthochlora
	<b>Domestic Ref</b>	R003	UR124	H095	R004	R005	UR094	R006	H004	E029
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	4.00	4.00	4.00	3.67	3.83	3.50	2.50	2.83	3.83
cum. gas [ml]		121.5	133.8	126.0	120.1	126.7	133.6	114.6	112.9	124.4
foam height	@ 8h	37.0	38.5	31.5	47.5	31.5	32.0	50.5	43.0	36.5
	@ 16h	18.5	31.0	32.0	32.5	34.5	23.5	25.5	32.0	28.0
compression	@ 16h	0.522	0.822	0.627	0.396	0.402	0.640	0.909	0.385	0.755
<b>ACIDOSIS</b>										
pH	@1h	6.49	6.51	6.51	5.94	6.49	6.55	5.97	6.49	6.50
	@24h	5.63	5.85	5.58	5.11	5.57	5.59	5.06	5.69	5.59
	@ 48 h	5.66	5.53	5.60	5.02	5.55	5.54	4.99	5.62	5.56
acidity relative to controls	@24h	80	40	75	62	77	72	72	70	86
	@ 48 h	69	82	72	91	81	82	100	77	91
lactic acid [ $\mu$ M]	@ 48 h	2.2	19.2	19.8	2.8	13.2	7.8	2.1	11.4	15.8
<b>GENERAL FERMENTATION</b>										
dmd [g g <sup>-1</sup> ]	10	101	90	102	97	103	99	90	94	98
	40	89	71	98	93	105	90	76	86	91
cumulative gas [ml, 24 h]	10	99	88	101	89	98	98	81	91	89
	40	82	67	93	86	89	85	70	74	79
fermentation efficiency	10	102	102	100	109	106	102	110	104	111
	40	107	106	106	108	118	106	109	116	115
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10 (%)	100	99	99	99	101	99	97	102	99
	Gas 10 (%)	99	91	101	100	103	102	88	89	94
	Fermn effic 10 (%)	100	108	97	98	98	96	110	114	105
	SCFA 10 (%)	97	104	100	98	104	124	93	95	96
	Microbial biomass	98	166	109	83	94	180	73	51	176
	C3/C2 at 10 (%)	95	105	95	99	98	100	101	109	105
<b>Leon data</b>										
	NDF (%)	38.4	30.0	41.9	55.9	23.0	46.6	31.0	19.9	43.5
<b>Methane formation</b>										
	Methane formed	96	78	98	100	105	125	90	102	96
<b>General effects</b>										
	Digestibility 10	98	93	101	98	104	97	97	101	103
	App. digestibility10	91	84	105	88	100	93	86	89	103
	Gas 10	99	86	97	100	102	106	96	101	102
	Fermn effic 10	97	109	105	97	102	92	100	101	101
	Microbial biomass	94	103	106	94	107	89	96	108	110
	C3/C2	97	94	92	101	92	115	99	98	124
	TVFA	93	87	102	96	102	102	93	88	95
<b>Rowett data</b>										
	Proteolysis	86.1	96.1	77.9	90.4	84.9	121.5	90.3	86.0	86.8
	Protozoa	93	15	77	68	80	91	206	75	110

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Alliaria petiolata	Allium cepa	Allium porrum	Allium ursinum	Alnus glutinosa	alpha-phellandrene	alpha-pinene	alpha-terpineol	Amaranthus caudatus	Amelanchier canadensis
	<b>Domestic Ref</b>	UR039	UR128	UR129	R096	R007	C005	C004	C006	UR041	R008
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	3.33	3.33	3.67	3.67	4.50	3.17	4.00	2.83	4.50
cum. gas [ml]		117.5	153.0	141.7	142.5	123.0	120.3	111.9	119.9	133.1	120.6
foam height	@ 8h	56.5	38.5	40.5	32.0	53.0	33.5	36.0	29.5	31.0	39.0
	@ 16h	33.5	38.0	25.5	38.0	34.5	24.5	29.0	32.5	25.5	34.5
compression	@ 16h	0.758	0.767	0.843	0.487	0.614	0.591	0.458	0.589	0.720	0.631
<b>ACIDOSIS</b>											
pH	@1h	5.95	6.41	6.45	6.49	5.93	6.67	6.64	6.63	6.48	5.97
	@24h	5.13	5.50	5.53	5.48	5.02	5.68	5.65	5.60	5.54	4.96
	@ 48 h	5.02	5.46	5.49	5.48	5.00	5.71	5.71	5.70	5.52	5.00
acidity relative to controls	@24h	60	100	95	97	79	111	119	137	79	94
	@ 48 h	92	96	89	96	96	139	140	142	85	98
lactic acid [ $\mu$ M]	@ 48 h	<0.5	2.6	<0.5	10.3	11.4	16.0	18.6	7.0	1.5	4.3
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	102	103	103	105	92	100	100	100	103	98
	40	99	116	107	113	71	81	81	99	108	88
cumulative gas [ml, 24 h]	10	89	103	106	104	79	95	93	98	102	87
	40	78	116	104	106	68	77	70	87	96	81
fermentation efficiency	10	114	99	97	101	117	105	108	102	101	112
	40	126	100	103	106	103	105	117	114	113	110
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	103	103	102	97	101	100	103	102	99
	Gas 10 (%)	102	108	108	105	96	100	100	101	105	98
	Fermn effic 10 (%)	98	95	95	97	101	101	100	103	97	101
	SCFA 10 (%)	106	124	119	110	102	102	100	102	122	104
	Microbial biomass	144	159	141	113	77	99	80	76	129	67
	C3/C2 at 10 (%)	97	108	107	106	93	100	100	99	95	96
<b>Leon data</b>											
	NDF (%)	39.5	9.5	20.5	13.7	26.7				28.4	36.1
<b>Methane formation</b>											
	Methane formed	102	105	99	101	96	114	100	116	110	104
<b>General effects</b>											
	Digestibility 10	102	106	103	104	98	95	96	94	104	102
	App. digestibility10	88	95	95	93	103	105	95	106	105	101
	Gas 10	100	104	103	105	101	100	100	99	101	100
	Fermn effic 10	103	102	101	100	97	95	96	94	104	101
	Microbial biomass	106	110	105	104	94	90	92	98	109	104
	C3/C2	97	95	99	101	98	109	101	113	99	98
	TVFA	99	106	104	108	99	96	99	62	99	96
<b>Rowett data</b>											
	Proteolysis	97.1	114.5	112.7	115.7	74.9	96.9	107.2	106.5	134.3	71.4
	Protozoa	96	80	79	81	90	101	102	96	88	72

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Amarcaria rusticana	Ananas comosus	Anemone x hybrida	anethol	Anethum foeniculum	Angelica archangelica	Angelicae sinensis	Anthemis arvensis	Anthemis cotula	Anthemis nobilis
	<b>Domestic Ref</b>	H104	UR111	R009	C007	E085	H005	A001	E131	UR042	A002
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.67	3.67	2.17	3.33	3.17	3.17	3.33	3.67	3.50	4.00
cum. gas [ml]		125.4	142.2	122.6	101.0	133.7	118.4	128.5	121.5	129.1	126.6
foam height	@ 8h	31.0	39.5	42.0	32.0	31.0	40.0	29.5	38.5	33.0	36.0
	@ 16h	34.0	33.5	26.5	33.5	33.0	29.0	30.0	32.5	31.5	33.5
compression	@ 16h	0.665	0.808	0.415	0.694	0.622	0.592	0.757	0.694	0.574	0.251
<b>ACIDOSIS</b>											
pH	@1h	6.66	6.44	5.94	6.51	6.48	6.51	6.46	6.49	6.49	6.49
	@24h	5.81	5.52	5.16	5.52	5.57	5.62	5.62	5.64	5.50	5.71
	@ 48 h	5.90	5.46	5.02	5.56	5.59	5.69	5.69	5.61	5.51	5.77
acidity relative to controls	@24h	78	96	54	89	86	85	75	72	88	58
	@ 48 h	84	97	93	80	76	66	57	71	88	46
lactic acid [ $\mu$ M]	@ 48 h	0.7	0.6	7.1	14.5	<0.5	<0.5	2.9	2.4	0.0	1.5
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	102	100	101	98	102	104	99	97	98	100
	40	105	105	99	87	105	99	114	93	97	96
cumulative gas [ml, 24 h]	10	94	101	90	86	101	102	97	93	95	95
	40	93	106	78	75	89	92	104	80	89	92
fermentation efficiency	10	108	100	112	114	100	102	102	105	103	105
	40	112	99	127	116	118	107	109	117	109	105
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	100	100	99	101	105	102	100	99	101
	Gas 10 (%)	102	105	102	102	105	107	106	105	102	103
	Fermn effic 10 (%)	98	95	98	97	96	97	96	94	97	98
	SCFA 10 (%)	104	134	105	106	103	103	105	106	114	104
	Microbial biomass	130	155	104	76	106	79	90	180	106	76
	C3/C2 at 10 (%)	96	107	96	96	97	97	101	96	92	92
<b>Leon data</b>											
	NDF (%)	20.1	45.2	31.9		26.0	29.2	10.7	42.5	34.9	23.2
<b>Methane formation</b>											
	Methane formed	99	97	100	122	110	136	108	94	102	109
<b>General effects</b>											
	Digestibility 10	104	98	99	92	100	102	100	108	102	99
	App. digestibility10	108	93	95	91	100	102	103	126	103	101
	Gas 10	98	98	98	94	100	108	102	102	105	101
	Fermn effic 10	107	100	97	97	100	116	100	111	99	100
	Microbial biomass	106	96	92	88	94	103	102	124	103	100
	C3/C2	103	104	99	95	98	106	99	94	106	99
	TVFA	103	107	95	90	103	92	100	114	99	99
<b>Rowett data</b>											
	Proteolysis	94.8	110.6	88.2	118.5	78.7	85.4	104.7	111.0	161.1	94.3
	Protozoa	99	80	89	82	90	96	62	104	81	86

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Anthoxanthum odoratum	Anthriscus sylvestris	Anthyllis vulneraria	Aquilegia vulgaris	Arbutus unedo	Arcitum lappa	Arctostaphylos uva-ursi	Aristolochia clematis	Aristolochia durior	Artemisia abrotanum
	<b>Domestic Ref</b>	R098	UR081	E040	H073	R010	UR044	R011	H100	H089	R012
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	4.00	3.17	4.33	3.67	3.33	3.17	3.50	3.50	3.33	3.50
cum. gas [ml]		130.7	130.9	130.1	131.4	113.9	129.0	117.5	125.9	122.0	114.6
foam height	@ 8h	34.0	32.5	45.5	36.5	42.0	35.5	38.0	26.5	39.5	35.5
	@ 16h	31.0	27.0	31.0	28.5	28.0	27.0	27.5	37.0	36.5	34.0
compression	@ 16h	0.711	0.754	0.284	0.623	0.782	0.375	0.774	0.641	0.489	0.759
<b>ACIDOSIS</b>											
pH	@1h	6.48	6.49	6.49	6.50	5.97	6.47	5.96	6.66	6.51	5.97
	@24h	5.59	5.56	5.61	5.61	5.03	5.50	4.93	5.79	5.54	5.07
	@ 48 h	5.58	5.56	5.64	5.59	4.99	5.50	4.99	5.88	5.53	5.03
acidity relative to controls	@24h	73	75	81	81	78	87	99	83	84	70
	@ 48 h	74	77	73	83	99	91	100	87	85	91
lactic acid [ $\mu$ M]	@ 48 h	16.9	3.8	7.2	4.0	7.8	<0.5	7.8	1.9	10.1	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	99	104	95	94	98	95	104	100	101
	40	96	96	100	88	64	88	82	99	104	95
cumulative gas [ml, 24 h]	10	96	99	97	90	93	102	86	90	100	91
	40	95	85	87	79	59	86	72	77	92	81
fermentation efficiency	10	104	100	107	105	101	97	110	116	100	110
	40	102	113	115	112	108	102	114	129	113	117
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	99	99	100	97	99	99	98	98	100	100
	Gas 10 (%)	101	104	106	100	99	100	97	93	99	103
	Fermn effic 10 (%)	98	95	94	97	100	98	101	106	101	97
	SCFA 10 (%)	109	103	106	102	101	118	102	97	102	105
	Microbial biomass	96	134	188	279	100	103	97	90	112	96
	C3/C2 at 10 (%)	101	95	96	99	97	95	94	106	96	94
<b>Leon data</b>											
	NDF (%)	59.3	41.8	52.2	38.3	29.5	43.2	25.3	21.9	20.2	36.8
<b>Methane formation</b>											
	Methane formed	103	115	108	89	94	102	83	98	96	98
<b>General effects</b>											
	Digestibility 10	98	100	100	102	100	100	98	103	102	101
	App. digestibility10	89	98	99	106	102	96	95	114	107	100
	Gas 10	99	107	103	100	100	103	95	97	93	99
	Fermn effic 10	100	94	99	102	103	98	101	106	111	100
	Microbial biomass	104	96	103	100	108	99	99	106	122	100
	C3/C2	97	101	101	102	91	105	89	106	95	98
	TVFA	90	98	101	108	100	97	92	98	95	97
<b>Rowett data</b>											
	Proteolysis	110.0	95.0	100.5	107.0	82.0	154.1	78.8	82.1	110.2	104.9
	Protozoa	77	85	87	97	44	115	87	60	92	61

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Artemisia absinthium	Artemisia campestris	Arum maculatum	Ascophyllum nodosum	Asparagus officinalis	Asparagus plumosus	Aster frikartii	Astragali	Astrantia major	Athyrium filix-femina
	<b>Domestic Ref</b>	R013	E086	UR078	UR083	A003	R014	R015	A037	H006	R016
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.33	3.50	2.67	3.50	3.67	3.00	3.67	3.67	3.67	2.50
cum. gas [ml]		127.8	130.8	139.7	110.8	110.2	115.9	123.9	138.3	122.1	110.5
foam height	@ 8h	31.0	49.5	29.5	30.0	35.0	40.0	67.5	42.5	30.0	54.0
	@ 16h	35.5	32.0	27.0	33.5	25.0	43.0	30.5	25.5	25.0	28.5
compression	@ 16h	0.667	0.666	0.633	0.730	0.920	0.557	0.785	0.620	0.371	
<b>ACIDOSIS</b>											
pH	@1h	6.51	6.48	6.49	5.97	6.52	6.50	5.99	6.49	6.50	5.97
	@24h	5.61	5.58	5.54	5.22	5.67	5.54	5.10	5.52	5.68	5.09
	@ 48 h	5.62	5.61	5.52	4.97	5.69	5.55	5.03	5.50	5.66	5.01
acidity relative to controls	@24h	70	83	79	47	66	83	64	84	70	66
	@ 48 h	67	72	85	105	58	81	92	90	70	95
lactic acid [ $\mu$ M]	@ 48 h	15.4	<0.5	4.9	<0.5	<0.5	14.7	<0.5	<0.5	<0.5	5.0
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	95	98	105	86	92	91	102	102	100	92
	40	102	98	108	53	73	79	107	107	85	72
cumulative gas [ml, 24 h]	10	98	92	97	81	85	99	87	87	104	91
	40	92	81	99	38	65	74	84	84	86	66
fermentation efficiency	10	96	107	108	106	109	92	117	117	96	101
	40	111	120	109	138	112	107	126	126	99	109
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	99	101	100	92	98	99	98	102	98
	Gas 10 (%)	100	102	104	96	95	101	101	103	102	96
	Fermn effic 10 (%)	100	97	97	104	97	97	98	95	100	102
	SCFA 10 (%)	110	100	103	103	98	106	105	108	101	108
	Microbial biomass	117	158	225	117	116	101	102	95	93	98
	C3/C2 at 10 (%)	96	92	98	96	96	98	95	100	96	96
<b>Leon data</b>											
	NDF (%)	32.1	30.9	19.9	28.8	76.5	54.2	17.2	35.3	48.4	48.1
<b>Methane formation</b>											
	Methane formed	100	111	113	99	101	90	102	115	108	95
<b>General effects</b>											
	Digestibility 10	103	98	103	98	92	101	103	98	99	99
	App. digestibility10	100	97	102	83	93	100	103	104	93	94
	Gas 10	98	97	109	99	94	98	100	102	102	98
	Fermn effic 10	106	100	95	100	100	103	100	97	95	99
	Microbial biomass	111	93	101	101	94	105	101	95	99	97
	C3/C2	97	97	115	103	96	103	100	110	100	98
	TVFA	100	96	94	94	90	97	96	103	88	96
<b>Rowett data</b>											
	Proteolysis	91.4	117.3	136.2	120.1	88.8	93.3	98.0	88.6	106.6	82.0
	Protozoa	88	88	91	86	92	72	24	100	39	35



Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Atriplex spec	Ballota nigra	Bellis perennis	benzyl-alcohol	Berberis valdiviana	Berberis vulgaris	Bergenia cordifolia	Beta vulgaris craca	Beta vulgaris altissima	beta-pinene
	<b>Domestic Ref</b>	H107	H007	R017	C008	R118	E082	R116	H109	H108	C009
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.33	3.17	4.33	2.83	3.33	4.00	3.17	2.50	3.33	3.50
cum. gas [ml]		127.8	119.4	126.5	118.2	114.2	124.4	121.8	128.5	125.9	109.6
foam height	@ 8h	35.0	34.5	34.0	33.5	40.5	40.5	33.5	29.0	30.0	26.0
	@ 16h	31.0	33.5	30.5	27.5	37.0	33.0	32.5	33.0	31.0	35.0
compression	@ 16h	0.528	0.356	0.609	0.442	0.730	0.492	0.789	0.653	0.588	0.843
<b>ACIDOSIS</b>											
pH	@1h	6.64	6.51	6.45	6.68	6.24	6.44	6.50	6.65	6.67	6.66
	@24h	5.80	5.69	5.61	5.66	5.65	5.51	5.60	5.79	5.83	5.66
	@ 48 h	5.86	5.72	5.55	5.71	5.59	5.52	5.54	5.92	5.95	5.70
acidity relative to controls	@24h	81	69	77	119	55	98	72	82	75	117
	@ 48 h	93	61	77	139	65	89	82	79	74	142
lactic acid [ $\mu$ M]	@ 48 h	4.0	<0.5	8.3	6.4	18.4	1.3	22.0	9.9	<0.5	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	104	97	97	100	86	101	92	102	106	97
	40	98	92	106	99	47	100	77	102	112	81
cumulative gas [ml, 24 h]	10	92	95	97	97	85	98	89	94	98	92
	40	92	91	88	96	47	91	62	87	92	76
fermentation efficiency	10	113	102	100	103	101	102	103	109	108	106
	40	107	100	121	103	100	110	124	117	122	107
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	103	102	101	99	101	98	101	101	101
	Gas 10 (%)	102	104	102	104	89	106	90	101	101	102
	Fermn effic 10 (%)	99	99	100	97	111	94	109	100	101	99
	SCFA 10 (%)	103	98	118	102	90	105	100	104	107	101
	Microbial biomass	112	80	147	91	61	111	83	132	103	96
	C3/C2 at 10 (%)	99	96	102	100	99	91	104	99	98	100
<b>Leon data</b>											
	NDF (%)	34.7	40.9	19.2		36.9	25.3	22.3	18.1	20.6	
<b>Methane formation</b>											
	Methane formed	106	119	94	109	102	109	92	108	112	108
<b>General effects</b>											
	Digestibility 10	102	100	105	99	103	98	104	102	103	96
	App. digestibility10	104	88	98	92	99	98	95	109	108	93
	Gas 10	99	104	103	96	107	100	112	99	100	97
	Fermn effic 10	103	97	102	103	98	99	93	104	103	98
	Microbial biomass	99	106	108	101	100	93	96	95	103	92
	C3/C2	102	103	100	109	91	90	93	113	107	107
	TVFA	102	92	102	99	113	100	114	103	100	97
<b>Rowett data</b>											
	Proteolysis	79.6	116.5	90.4	101.9	78.9	82.9	78.6	97.0	85.7	113.6
	Protozoa	102	105	7	95	69	94	74	81	92	57



Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Betonica (=Stachys) offi	Betula pendula	Bighead atractylodes	Borago officinalis	bornyl-acetat/Borneol	Brassica nigra	Bryonia dioica	Buxus sempervirens	Calamintha clinopium	Calendula arvensis
	<b>Domestic Ref</b>	H008	H110	A004	UR046	C010	E052	E079	R018	A005	H009
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	3.83	3.83	3.33	3.33	3.17	3.83	4.83	4.33	2.83
cum. gas [ml]		123.0	119.8	137.4	128.9	112.9	129.0	120.2	121.7	121.5	129.2
foam height	@ 8h	34.0	38.0	29.5	38.5	33.5	37.0	41.0	50.5	40.5	42.0
	@ 16h	23.0	32.5	33.0	23.0	36.5	35.5	33.5	38.0	26.0	28.5
compression	@ 16h	0.557	0.576	0.568	0.300	0.561	0.578	0.674	0.725	0.303	0.566
<b>ACIDOSIS</b>											
pH	@1h	6.61	6.64	6.48	6.49	6.63	6.50	6.51	5.93	6.49	6.64
	@24h	5.59	5.76	5.54	5.58	5.67	5.64	5.67	5.02	5.66	5.70
	@ 48 h	5.67	5.90	5.52	5.55	5.73	5.69	5.70	4.95	5.68	5.76
acidity relative to controls	@24h	81	90	92	71	112	75	70	78	68	62
	@ 48 h	73	84	91	80	130	65	63	109	59	59
lactic acid [ $\mu$ M]	@ 48 h	<0.5	5.9	<0.5	2.2	5.1	7.9	<0.5	0.7	<0.5	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	98	99	102	94	96	100	104	96	99	100
	40	86	75	110	90	93	93	104	98	92	96
cumulative gas [ml, 24 h]	10	98	93	100	103	96	91	93	90	86	103
	40	86	65	100	92	79	82	84	85	82	83
fermentation efficiency	10	100	106	102	91	100	111	112	106	115	97
	40	101	116	110	97	119	114	125	114	112	117
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	102	97	101	101	100	103	102	100	101	103
	Gas 10 (%)	105	96	106	103	101	102	104	103	100	102
	Fermn effic 10 (%)	97	101	96	98	99	101	98	96	101	101
	SCFA 10 (%)	104	103	107	111	97	102	105	111	105	102
	Microbial biomass	65	141	130	119	82	343	140	118	46	86
	C3/C2 at 10 (%)	96	98	105	100	96	95	93	96	92	98
<b>Leon data</b>											
	NDF (%)	49.9	37.3	10.3	23.2		34.8	18.9	41.0	29.2	38.3
<b>Methane formation</b>											
	Methane formed	120	106	105	105	105	110	108	92	101	102
<b>General effects</b>											
	Digestibility 10	100	100	101	103	94	99	100	100	97	102
	App. digestibility10	97	106	104	99	88	93	98	97	92	107
	Gas 10	105	100	108	107	100	97	97	101	101	104
	Fermn effic 10	95	100	95	98	94	103	103	97	97	100
	Microbial biomass	100	97	95	105	87	95	100	96	96	106
	C3/C2	100	109	116	102	100	110	110	100	99	100
	TVFA	95	98	107	98	99	104	92	96	98	103
<b>Rowett data</b>											
	Proteolysis	124.3	85.9	141.3	117.2	129.5	118.5	73.7	93.0	133.0	98.8
	Protozoa	96	74	97	88	104	97	98	94	102	69

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Calendula officinalis	Calluna vulgaris	Caltha palustris	Camellia sinensis (D)	Camellia sinensis (G)	Camellia sinensis (O)	Camellia sinensis (S)	Campanula rapunculus	camphene	Capsella bursa-pastoris
	<b>Domestic Ref</b>	H010	E135	R104	A006	A007	A008	A009	E145	C011	UR003
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.83	4.00	3.67	4.17	3.83	3.00	3.17	3.33	3.00	3.50
cum. gas [ml]		127.1	122.3	136.0	126.3	133.5	114.2	119.5	126.9	116.6	123.9
foam height	@ 8h	24.0	37.0	35.0	32.5	42.0	42.5	40.0	37.5	30.5	48.5
	@ 16h	21.5	32.0	24.5	23.0	27.0	33.0	32.5	30.0	36.0	30.5
compression	@ 16h	0.604	0.656	0.629	0.192	0.806	0.716	0.348	0.757	0.686	0.752
<b>ACIDOSIS</b>											
pH	@1h	6.62	6.49	6.47	6.49	6.49	6.53	6.52	6.53	6.60	5.97
	@24h	5.60	5.68	5.58	5.63	5.67	5.70	5.68	5.71	5.49	5.08
	@ 48 h	5.58	5.63	5.52	5.60	5.66	5.66	5.62	5.64	5.49	5.01
acidity relative to controls	@24h	80	85	84	74	66	81	85	78	98	68
	@ 48 h	92	84	83	74	63	78	85	82	95	96
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	9.5	2.2	6.8	1.6	10.2	<0.5	10.6	2.1
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	97	97	99	101	96	97	99	102	96
	40	99	81	107	99	98	81	96	91	93	93
cumulative gas [ml, 24 h]	10	96	87	95	97	90	87	90	89	95	90
	40	81	73	94	77	80	72	78	76	88	84
fermentation efficiency	10	103	112	102	102	112	110	107	110	107	106
	40	122	111	114	129	123	112	123	120	106	111
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	105	98	101	100	101	98	100	100	100	98
	Gas 10 (%)	105	97	103	100	99	94	101	105	100	100
	Fermn effic 10 (%)	99	100	98	100	102	103	98	94	99	98
	SCFA 10 (%)	103	106	143	104	100	109	104	107	100	116
	Microbial biomass	97	69	136	118	132	102	139	161	106	88
	C3/C2 at 10 (%)	97	95	107	88	88	92	89	98	100	97
<b>Leon data</b>											
	NDF (%)	39.0	34.8	16.1	21.0	24.6	35.8	25.2	44.7		49.2
<b>Methane formation</b>											
	Methane formed	97	97	103	102	102	102	101	99	97	96
<b>General effects</b>											
	Digestibility 10	103	106	104	97	98	98	98	107	95	98
	App. digestibility10	106	108	114	92	98	101	97	126	93	92
	Gas 10	103	98	99	103	101	97	99	97	98	97
	Fermn effic 10	104	113	106	95	98	102	100	117	98	100
	Microbial biomass	103	123	111	92	96	102	98	131	92	99
	C3/C2	100	101	98	95	97	100	97	103	106	95
	TVFA	107	112	97	102	102	95	99	108	97	97
<b>Rowett data</b>											
	Proteolysis	107.7	97.3	104.0	93.4	132.3	144.4	126.1	142.4	114.3	99.8
	Protozoa	63	102	45	73	84	96	86	65	84	116

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Capsicum minimum	Captidix trifolia	Carduus pycnocephalus	Carthamus tinctorius	Carum carvi	Carum verticillatum	carvacrol	Cassia tora	Castanea sativa fr	Castanea vulgaris
	<b>Domestic Ref</b>	UR047	A044	E096	H111	UR048	E126	C012	A010	UR125	E146
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.50	2.33	3.67	3.17	2.83	3.83	3.33	2.83	3.67	2.83
cum. gas [ml]		122.4	126.1	127.7	121.8	128.4	126.7	109.8	114.0	114.9	117.9
foam height	@ 8h	36.0	37.5	38.5	28.0	33.0	30.5	24.0	40.0	39.0	40.0
	@ 16h	22.0	34.5	28.5	29.0	30.0	34.0	33.5	35.0	23.5	33.0
compression	@ 16h	0.444	0.394	0.679	0.789	0.709	0.691	0.760	0.696	0.831	0.576
<b>ACIDOSIS</b>											
pH	@1h	6.49	6.51	6.47	6.63	6.48	6.46	6.65	6.55	6.45	6.51
	@24h	5.54	5.53	5.61	5.74	5.57	5.61	5.78	5.67	5.62	5.70
	@ 48 h	5.55	5.51	5.61	5.86	5.54	5.59	5.85	5.63	5.52	5.62
acidity relative to controls	@24h	79	83	76	94	87	77	85	87	74	79
	@ 48 h	79	90	71	92	79	75	95	85	82	85
lactic acid [ $\mu$ M]	@ 48 h	2.6	2.0	5.5	0.7	0.6	<0.5	<0.5	9.6	2.6	3.0
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	94	99	99	96	95	99	97	89	82	99
	40	90	91	99	92	95	106	69	66	68	88
cumulative gas [ml, 24 h]	10	92	90	92	88	105	93	90	88	84	89
	40	85	74	88	85	87	91	52	60	62	75
fermentation efficiency	10	102	110	108	109	90	106	108	101	98	111
	40	106	124	112	108	108	117	134	110	111	117
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	99	98	100	98	101	102	96	96	94	98
	Gas 10 (%)	102	99	102	100	101	104	93	96	89	95
	Fermn effic 10 (%)	97	99	98	98	100	99	104	99	106	103
	SCFA 10 (%)	106	94	102	104	100	106	95	97	107	98
	Microbial biomass	88	163	141	133	91	98	61	87	111	117
	C3/C2 at 10 (%)	94	102	99	99	98	94	100	95	112	103
<b>Leon data</b>											
	NDF (%)	31.1	32.3	37.4	40.5	50.7	23.1		48.3	28.2	32.6
<b>Methane formation</b>											
	Methane formed	106	111	70 - 92	109	104	98	62	99	88	101
<b>General effects</b>											
	Digestibility 10	103	97	98	102	102	108	75	96	99	109
	App. digestibility10	115	100	97 - 107	106	99	124	64	89	92	118
	Gas 10	108	101	97	99	102	95	62	95	97	103
	Fermn effic 10	96	97	101	103	100	120	122	102	103	112
	Microbial biomass	101	95	91	99	102	117	92	100	106	129
	C3/C2	98	105	99	107	99	99	72	102	90	94
	TVFA	100	97	106	100	102	112	55	92	93	110
<b>Rowett data</b>											
	Proteolysis	121.1	77.7	86.7	109.1	116.2	112.2	124.9	126.2	92.0	130.9
	Protozoa	66	85	84	106	92	81	91	83	15	61

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Catalpa sp	Catalpa speciosa	Centaurea jacea	Centaurea nigra	Cerastium brachypetalu	Cerasus avium	Chamerion angustifolium	Chamomilla suaveolens	Chelidonium majus	Chenopodium album
	<b>Domestic Ref</b>	UR098	H082	E158	E023	H080	E054	UR110	UR100	H011	UR005
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.83	2.67	2.83	4.67	4.17	3.67	3.33	3.00	2.67	3.33
cum. gas [ml]		131.3	130.2	119.4	133.9	129.8	133.4	122.6	118.3	121.5	130.0
foam height	@ 8h	30.5	38.5	40.0	48.0	30.5	26.0	38.0	37.5	35.5	50.5
	@ 16h	24.5	34.5	30.5	33.0	31.5	33.0	27.0	32.0	26.0	31.0
compression	@ 16h	0.786	0.746	0.787	0.665	0.571	0.727	0.774	0.484	0.659	0.472
<b>ACIDOSIS</b>											
pH	@1h	6.51	6.66	6.54	6.51	6.65	6.49	6.44	6.53	6.60	5.98
	@24h	5.52	5.70	5.67	5.58	5.85	5.59	5.57	5.55	5.58	5.04
	@ 48 h	5.51	5.79	5.64	5.60	5.97	5.60	5.49	5.54	5.60	4.96
acidity relative to controls	@24h	83	107	87	88	71	85	84	79	82	76
	@ 48 h	90	113	81	81	68	81	89	83	89	109
lactic acid [ $\mu$ M]	@ 48 h	6.6	16.5	0.5	2.6	8.6	5.3	11.5	<0.5	<0.5	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	101	101	99	106	94	104	86	98	103	94
	40	97	98	92	97	79	98	70	101	100	84
cumulative gas [ml, 24 h]	10	101	88	88	97	92	88	84	96	99	87
	40	90	85	76	84	80	87	68	87	94	71
fermentation efficiency	10	99	114	113	109	102	118	103	102	104	108
	40	108	116	122	115	99	113	103	117	107	118
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	100	99	100	98	100	95	100	107	98
	Gas 10 (%)	104	102	103	106	99	104	84	101	106	98
	Fermn effic 10 (%)	96	97	96	95	99	97	113	99	100	100
	SCFA 10 (%)	120	101	106	103	99	104	121	120	107	105
	Microbial biomass	140	87	119	122	83	144	135	184	126	81
	C3/C2 at 10 (%)	100	96	95	96	97	99	114	96	99	97
<b>Leon data</b>											
	NDF (%)	32.6	28.9	44.3	31.5	51.2	20.6	31.8	34.3	15.9	39.0
<b>Methane formation</b>											
	Methane formed	119	101	87	106	98	113	83	109	91	87
<b>General effects</b>											
	Digestibility 10	100	103	105	105	100	102	98	103	102	100
	App. digestibility10	92	104	118	110	96	100	93	97	97	99
	Gas 10	103	98	98	102	98	102	89	110	99	99
	Fermn effic 10	98	106	113	104	103	104	112	94	104	102
	Microbial biomass	97	110	122	109	103	107	105	97	108	104
	C3/C2	106	98	97	129	95	91	90	101	104	95
	TVFA	109	100	109	112	101	96	101	109	102	101
<b>Rowett data</b>											
	Proteolysis	104.4	84.3	97.5	91.2	97.3	86.5	66.3	91.2	97.9	79.4
	Protozoa	65	76	92	59	48	92	55	96	96	121

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Chenopodium bonus-he	Chenopodium polysper	Chenopodium rubrum	Cichorium intybus	Cimicifuga racemosa	cinnamic acid	cinnamic aldehyde	Cirsium eriphorum	Cistus ladanifer	Cistus laurifolius
	<b>Domestic Ref</b>	H012	UR004	UR113	H013	R020	C013	C014	UR007	E148	R021
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	2.67	3.00	3.33	3.83	2.17	2.17	3.50	3.33	2.83	3.17
cum. gas [ml]		121.4	127.7	134.2	120.0	126.6	118.9	116.3	130.0	113.9	113.6
foam height	@ 8h	31.0	44.0	32.0	27.5	44.0	32.5	28.0	32.5	40.0	36.5
	@ 16h	25.5	36.5	29.0	26.0	35.0	33.5	35.0	35.0	26.0	32.0
compression	@ 16h	0.355	0.714	0.399	0.860	0.319	0.707	0.493	0.567	0.412	0.865
<b>ACIDOSIS</b>											
pH	@1h	6.65	5.98	6.51	6.59	5.96	6.51	6.68	5.98	6.52	5.96
	@24h	5.65	5.01	5.61	5.62	5.00	5.45	5.64	5.00	5.72	5.01
	@ 48 h	5.68	4.99	5.55	5.86	5.02	5.48	5.72	4.99	5.63	4.97
acidity relative to controls	@24h	71	81	79	76	83	107	123	85	77	81
	@ 48 h	72	100	79	44	93	96	138	100	84	105
lactic acid [ $\mu$ M]	@ 48 h	<0.5	0.7	1.9	<0.5	5.7	9.2	<0.5	<0.5	23.0	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	102	99	95	93	96	105	100	104	93	88
	40	106	85	80	87	96	101	76	106	67	71
cumulative gas [ml, 24 h]	10	107	90	95	95	87	94	94	91	79	81
	40	91	73	84	83	77	91	58	90	53	61
fermentation efficiency	10	96	110	100	98	111	112	107	114	117	109
	40	117	116	96	105	125	111	132	117	126	117
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	105	98	98	101	100	100	100	101	95	98
	Gas 10 (%)	105	98	102	103	103	100	101	102	87	96
	Fermn effic 10 (%)	99	100	96	97	97	101	99	98	110	102
	SCFA 10 (%)	103	101	117	101	106	100	104	124	94	102
	Microbial biomass	76	75	130	79	105	92	84	86	86	101
	C3/C2 at 10 (%)	97	96	101	97	95	100	99	99	100	95
<b>Leon data</b>											
	NDF (%)	14.7	43.3	51.1	54.7	31.6			31.2	30.8	29.9
<b>Methane formation</b>											
	Methane formed	103	89	87	94	104	94	100	95	101	94
<b>General effects</b>											
	Digestibility 10	101	98	97	99	100	99	97	101	107	99
	App. digestibility10	91	117	97	93	98	95	101	105	108	91
	Gas 10	101	98	92	100	100	98	94	99	103	102
	Fermn effic 10	101	101	105	103	98	99	102	103	108	96
	Microbial biomass	106	101	104	107	96	97	99	103	124	95
	C3/C2	102	103	92	100	100	95	114	99	96	96
	TVFA	102	100	88	98	96	97	91	107	95	96
<b>Rowett data</b>											
	Proteolysis	114.5	104.7	98.6	122.2	101.3	85.0	98.2	91.2	44.1	87.2
	Protozoa	76	113	94	96	82	85	84	101	21	26

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>										
		citral	citronellal	citronellol	Citrus reticulata	Clematis vitalba	Coicya monensis (chei)	Conium maculatum	Convolvulus arvensis	Coptis trifolia + Scutella	Corandrum sativum
	<b>Domestic Ref</b>	C015	C016	C017	UR138	H102	E132	E094	H112	A019	A011
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.50	2.67	3.33	2.33	2.83	4.67	3.33	3.67	2.83	3.17
cum. gas [ml]		114.4	116.5	120.9	152.2	124.9	132.7	132.5	128.2	125.8	126.5
foam height	@ 8h	34.5	35.0	42.5	35.0	35.5	36.0	36.5	29.5	37.5	35.0
	@ 16h	36.5	31.0	30.5	29.5	31.5	22.0	33.5	32.5	30.5	35.0
compression	@ 16h	0.848	0.540	0.443	0.657	0.407	0.409	0.293	0.626	0.562	0.500
<b>ACIDOSIS</b>											
pH	@1h	6.65	6.64	6.66	6.47	6.67	6.47	6.51	6.67	6.51	6.50
	@24h	5.72	5.65	5.75	5.50	5.83	5.58	5.66	5.77	5.72	5.72
	@ 48 h	5.80	5.79	5.80	5.47	5.93	5.59	5.67	5.90	5.63	5.70
acidity relative to controls	@24h	101	120	93	102	75	84	68	88	76	75
	@ 48 h	110	111	110	95	77	75	61	84	83	69
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	1.3	26.2	7.1	2.4	1.3	2.6	10.7	7.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	99	101	104	98	101	100	99	96	103
	40	79	83	86	115	98	103	100	100	84	109
cumulative gas [ml, 24 h]	10	97	98	99	106	89	91	98	91	91	93
	40	70	73	80	110	75	92	83	90	71	90
fermentation efficiency	10	103	101	102	98	111	112	101	109	105	110
	40	112	114	106	104	130	112	120	111	117	120
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	100	97	101	99	102	102	100	99	101
	Gas 10 (%)	100	103	96	109	104	106	104	102	99	103
	Fermn effic 10 (%)	100	97	101	93	96	96	97	97	100	99
	SCFA 10 (%)	102	104	97	125	104	108	102	104	97	103
	Microbial biomass	119	81	75	147	111	159	107	102	109	88
	C3/C2 at 10 (%)	101	99	94	102	100	95	98	97	96	96
<b>Leon data</b>											
	NDF (%)				21.2	41.3	28.7	31.3	35.4	32.4	20.1
<b>Methane formation</b>											
	Methane formed	110	119	111	99	95	103	97	105	101	90
<b>General effects</b>											
	Digestibility 10	95	97	94	103	101	106	97	106	96	99
	App. digestibility10	107	102	107	97	100	93	92	110	117	94
	Gas 10	94	97	90	105	94	104	98	105	99	98
	Fermn effic 10	101	99	105	99	108	107	99	102	99	103
	Microbial biomass	95	94	97	103	102	115	90	110	97	103
	C3/C2	100	106	106	100	107	103	101	94	99	109
	TVFA	96	98	96	107	97	115	100	105	100	96
<b>Rowett data</b>											
	Proteolysis	117.2	144.7	124.5	82.1	98.7	84.1	112.0	97.5	106.5	121.2
	Protozoa	98	101	98	73	26	95	97	77	61	101

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Cornus sanguinea	Corylus avellana	coumarin	Crataegus cuneata + P	Crataegus cuneata fr.(P	Crataegus cuneata fr.(R	Crataegus monogyna	Crepis virens	Cucumis melo	Cucurbita pepo
	<b>Domestic Ref</b>	R022	R024	C018	A020	A012	A013	R102	E156	UR123	UR134
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	4.33	2.83	4.00	2.83	3.17	3.33	3.67	2.83	3.83	3.17
cum. gas [ml]		121.1	120.1	112.2	134.0	115.4	127.6	132.7	120.1	129.9	133.0
foam height	@ 8h	52.5	36.5	33.5	35.0	35.0	27.5	35.0	35.0	29.5	37.0
	@ 16h	34.0	32.0	33.0	36.0	36.0	38.0	22.5	38.5	33.0	33.0
compression	@ 16h	0.618	0.750	0.620	0.501	0.619	0.344	0.560	0.542	0.595	0.838
<b>ACIDOSIS</b>											
pH	@1h	5.94	5.92	6.54	6.50	6.53	6.48	6.45	6.56	6.48	6.47
	@24h	5.00	5.07	5.45	5.61	5.72	5.62	5.58	5.74	5.65	5.64
	@ 48 h	4.96	4.99	5.46	5.53	5.75	5.59	5.53	5.72	5.60	5.60
acidity relative to controls	@24h	82	68	106	103	76	98	84	73	69	72
	@ 48 h	108	99	102	108	61	92	81	67	67	67
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	20.9	14.5	10.7	12.9	9.5	4.3	<0.5	7.7
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	90	100	100	91	98	100	102	91	98
	40	77	69	101	97	79	99	95	96	86	110
cumulative gas [ml, 24 h]	10	85	86	92	92	92	100	95	86	93	94
	40	65	63	94	100	71	97	90	80	72	74
fermentation efficiency	10	118	104	108	109	99	99	106	119	97	104
	40	119	109	107	98	112	101	106	120	120	149
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	99	98	100	100	99	99	101	100	99	102
	Gas 10 (%)	91	97	98	103	98	104	102	102	98	103
	Fermn effic 10 (%)	109	101	102	97	101	95	99	97	102	99
	SCFA 10 (%)	96	106	98	101	97	101	113	105	102	98
	Microbial biomass	113	115	71	106	117	101	84	159	105	121
	C3/C2 at 10 (%)	100	94	100	99	95	99	99	97	108	101
<b>Leon data</b>											
	NDF (%)	12.4	39.7		57.9	62.8	25.2	16.6	39.0	47.0	37.5
<b>Methane formation</b>											
	Methane formed	93	75	101	105	96	99	96	103	87	90
<b>General effects</b>											
	Digestibility 10	104	101	99	97	94	94	105	104	99	98
	App. digestibility10	91	97	102	96	99	98	108	101	95	97
	Gas 10	106	98	96	100	94	98	102	99	92	89
	Fermn effic 10	99	103	101	97	101	97	105	111	109	111
	Microbial biomass	108	107	103	94	94	90	112	123	111	110
	C3/C2	96	101	101	99	102	106	93	100	89	96
	TVFA	96	97	82	98	95	102	103	108	89	90
<b>Rowett data</b>											
	Proteolysis	78.4	79.1	134.8	89.5	144.6	157.2	98.8	156.6	108.2	113.1
	Protozoa	27	83	97	94	77	82	81	95	93	102



Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Cuminum cyminum	Curcuma longa	curcumin	Cydonia oblonga	Cynara scolymus	Cynoglossum cheirifolium	Cytisus scoparius	Daphne gnidium	Datisca cannabina	Datura stramonium
	<b>Domestic Ref</b>	UR050	UR103	C019	H079	UR135	E112	E043	E016	H088	E162
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.00	3.17	2.33	3.83	3.00	3.67	4.00	3.50	3.33	3.17
cum. gas [ml]		127.1	130.9	112.1	121.4	124.4	126.8	133.2	128.0	119.0	115.7
foam height	@ 8h	28.0	29.5	37.5	34.5	34.0	38.5	37.5	39.5	38.5	45.0
	@ 16h	25.5	24.5	28.5	38.5	35.5	30.5	31.0	27.0	33.0	31.5
compression	@ 16h	0.545	0.444	0.811	0.559	0.669	0.693	0.452	0.692	0.649	0.651
<b>ACIDOSIS</b>											
pH	@1h	6.51	6.53	6.52	6.67	6.49	6.47	6.50	6.47	6.51	6.58
	@24h	5.48	5.53	5.45	5.79	5.49	5.61	5.62	5.58	5.65	5.75
	@ 48 h	5.51	5.52	5.48	5.86	5.51	5.61	5.64	5.56	5.59	5.69
acidity relative to controls	@24h	93	97	107	84	94	76	78	85	64	72
	@ 48 h	90	85	97	95	88	72	74	90	73	73
lactic acid [ $\mu$ M]	@ 48 h	18.6	13.5	8.6	12.5	13.2	<0.5	5.3	7.2	14.4	10.7
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	98	98	99	96	103	99	101	102	87	101
	40	96	89	99	87	108	105	100	96	48	104
cumulative gas [ml, 24 h]	10	99	99	89	87	104	89	94	93	84	94
	40	88	94	91	65	93	86	87	78	62	73
fermentation efficiency	10	100	98	112	111	99	111	107	110	105	108
	40	110	95	108	133	116	122	114	122	78	142
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	99	100	99	101	99	100	99	96	105
	Gas 10 (%)	101	101	98	97	105	103	106	100	90	102
	Fermn effic 10 (%)	100	98	102	102	96	97	94	99	107	102
	SCFA 10 (%)	104	131	98	101	120	103	107	118	92	103
	Microbial biomass	110	176	78	89	99	99	141	140	118	72
	C3/C2 at 10 (%)	98	100	101	98	107	96	93	96	97	94
<b>Leon data</b>											
	NDF (%)	42.5	59.7		31.0	32.3	41.6	26.6	26.6	33.0	21.3
<b>Methane formation</b>											
	Methane formed	103	117	103	90	91	96	109	97	90	101
<b>General effects</b>											
	Digestibility 10	103	104	98	102	102	107	101	100	96	109
	App. digestibility10	105	97	93	89	87	98	94	124	115	95
	Gas 10	101	108	94	104	98	103	100	100	89	100
	Fermn effic 10	103	96	103	99	105	108	101	101	109	116
	Microbial biomass	106	100	111	104	108	120	106	111	108	133
	C3/C2	103	96	106	93	92	95	98	91	95	93
	TVFA	101	112	73	101	101	109	101	101	92	107
<b>Rowett data</b>											
	Proteolysis	117.3	114.6	102.0	74.1	84.2	98.6	80.3	89.3	95.5	92.6
	Protozoa	85	93	104	75	80	100	98	88	5	94

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Daucus carota	d-camphor	d-carvone	d-fenchone	Dianthus caryophyllus	Dictamnus albus	Digitalis purpurea	Dioscoria villosa	Dipsacus sylvestris	Doronicum pardalianche
	<b>Domestic Ref</b>	E115	C020	C021	C033	H098	R026	E129	UR105	E105	R106
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	3.00	3.17	3.33	3.50	2.83	3.67	2.67	3.83	3.67
cum. gas [ml]		133.6	113.0	118.8	124.2	130.5	122.3	136.4	154.8	130.8	135.2
foam height	@ 8h	44.5	35.0	40.0	28.0	39.0	47.0	31.5	29.5	33.0	35.5
	@ 16h	30.0	32.5	36.0	31.5	35.0	30.5	33.0	30.0	26.0	31.5
compression	@ 16h	0.118	0.755	0.731	0.828	0.700	0.886	0.678	0.536	0.964	0.628
<b>ACIDOSIS</b>											
pH	@1h	6.47	6.50	6.65	6.70	6.49	5.94	6.46	6.45	6.49	6.45
	@24h	5.56	5.50	5.64	5.63	5.56	5.10	5.59	5.49	5.71	5.60
	@ 48 h	5.58	5.51	5.75	5.72	5.54	5.02	5.57	5.47	5.70	5.52
acidity relative to controls	@24h	88	94	122	126	79	64	81	104	58	79
	@ 48 h	78	90	126	137	83	93	80	95	56	83
lactic acid [ $\mu$ M]	@ 48 h	<0.5	9.9	0.6	14.2	10.3	5.0	0.5	12.8	<0.5	9.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	98	99	98	96	103	101	100	103	102	101
	40	105	101	100	100	103	99	110	111	107	108
cumulative gas [ml, 24 h]	10	98	91	94	91	90	98	91	105	96	100
	40	90	85	92	93	95	94	85	116	85	101
fermentation efficiency	10	100	110	104	105	114	103	110	98	106	101
	40	118	118	108	107	108	106	130	96	127	107
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	101	99	100	101	99	102	102	101	101
	Gas 10 (%)	104	95	98	99	106	101	106	110	106	103
	Fermn effic 10 (%)	97	106	101	100	94	98	95	92	96	98
	SCFA 10 (%)	103	97	100	99	102	113	108	139	100	113
	Microbial biomass	123	94	73	121	96	101	82	225	132	90
	C3/C2 at 10 (%)	94	98	97	105	98	95	100	106	96	99
<b>Leon data</b>											
	NDF (%)	26.7				43.1	26.9	20.9	11.9	22.6	15.6
<b>Methane formation</b>											
	Methane formed	107	104	95	95	101	81	94	118	97	101
<b>General effects</b>											
	Digestibility 10	106	98	99	98	102	102	109	106	102	102
	App. digestibility10	102	96	109	105	124	106	103	94	87	111
	Gas 10	106	100	97	98	98	100	104	114	103	108
	Fermn effic 10	106	97	102	99	105	102	110	94	99	95
	Microbial biomass	122	93	99	94	102	103	119	99	96	102
	C3/C2	100	102	96	98	97	100	103	102	95	97
	TVFA	114	97	102	102	98	102	123	115	104	92
<b>Rowett data</b>											
	Proteolysis	86.6	76.2	108.7	90.4	101.3	89.6	86.1	95.4	95.8	103.5
	Protozoa	98	94	91	109	82	79	70	81	100	73

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Dryopteris filix-mas	Echinacea purpurea MC	Echium vulgare	Elettaria cardamomum	Epilobium hirsutum	Epilobium montanum	Epimedium brevicornum	Equisetum arevense	Equisetum pratense	Erica arborea
	<b>Domestic Ref</b>	R027	H014	H015	UR107	H016	UR086	A014	UR009	H017	E015
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.50	3.50	2.83	3.67	3.00	5.00	2.67	4.00	3.17	2.83
cum. gas [ml]		116.2	114.9	120.7	140.1	111.3	113.1	118.6	125.2	133.2	112.0
foam height	@ 8h	54.5	32.5	31.0	30.0	35.0	45.0	32.5	35.0	46.0	32.5
	@ 16h	35.0	24.5	30.0	26.5	28.5	30.0	31.0	23.5	26.5	23.5
compression	@ 16h	0.532	0.712	0.389	0.655	0.644	0.833	0.692	0.409	0.506	0.499
<b>ACIDOSIS</b>											
pH	@1h	5.95	6.62	6.61	6.50	6.61	5.98	6.51	5.94	6.62	6.51
	@24h	5.12	5.60	5.88	5.57	5.60	4.98	5.68	5.06	5.64	5.64
	@ 48 h	5.02	5.66	5.71	5.50	5.62	4.99	5.64	4.97	5.69	5.67
acidity relative to controls	@24h	61	80	37	87	79	88	84	72	72	75
	@ 48 h	91	76	66	88	85	100	80	104	71	69
lactic acid [ $\mu$ M]	@ 48 h	5.0	<0.5	16.3	10.9	17.0	3.6	3.2	<0.5	7.1	5.4
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	89	97	99	99	92	93	92	104	103	96
	40	62	104	97	93	87	84	70	104	112	65
cumulative gas [ml, 24 h]	10	88	97	96	97	91	85	86	92	97	84
	40	67	92	85	102	79	68	67	92	103	55
fermentation efficiency	10	101	100	104	102	101	110	107	113	106	114
	40	93	113	115	91	111	124	105	113	109	118
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	99	104	104	100	100	97	97	101	105	98
	Gas 10 (%)	94	104	101	103	88	91	96	106	108	92
	Fermn effic 10 (%)	105	99	102	97	114	107	101	95	97	106
	SCFA 10 (%)	104	112	102	129	91	97	96	131	103	99
	Microbial biomass	106	100	53	207	53	92	130	87	55	110
	C3/C2 at 10 (%)	97	95	100	100	111	98	97	97	95	95
<b>Leon data</b>											
	NDF (%)	44.9	31.6	32.5	59.8	35.7	15.0	44.5	40.4	37.6	36.5
<b>Methane formation</b>											
	Methane formed	78	109	106	106	97	102	94	88	109	95
<b>General effects</b>											
	Digestibility 10	96	105	103	103	98	99	92	102	100	101
	App. digestibility10	89	99	94	89	88	101	96	99	97	117
	Gas 10	98	112	101	109	107	101	93	99	109	98
	Fermn effic 10	98	96	105	95	92	98	100	104	96	103
	Microbial biomass	92	103	111	97	89	100	90	106	100	122
	C3/C2	102	102	108	108	102	90	102	95	102	88
	TVFA	98	114	104	112	103	95	98	102	107	87
<b>Rowett data</b>											
	Proteolysis	80.0	107.3	117.2	177.3	63.8	75.6	142.4	115.0	90.6	102.2
	Protozoa	16	85	86	85	80	70	96	117	103	73

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Erica australis	Erica cinerea	Eryngium campestre	eucalyptol	Eucalyptus globulus	Eucommia ulmoides	Eugenia caryophyllata	eugenol	eugenol methyl/ether	Euhorbia helioscopia
	<b>Domestic Ref</b>	E007	E134	E110	C022	UR052	A015	A016	C023	C024	E090
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	3.33	3.83	4.33	3.17	2.67	3.83	4.00	3.83	3.50
cum. gas [ml]		104.4	120.3	128.4	117.8	113.2	106.4	122.6	113.0	126.0	130.0
foam height	@ 8h	38.5	44.0	42.0	35.0	37.5	45.0	33.5	33.5	40.0	26.5
	@ 16h	28.0	29.5	23.5	29.0	26.5	39.0	36.0	36.0	36.0	29.5
compression	@ 16h	0.747	0.764	0.503	0.496	0.506	0.526	0.675	0.766	0.903	0.774
<b>ACIDOSIS</b>											
pH	@1h	6.50	6.49	6.48	6.60	5.97	6.54	6.52	6.62	6.71	6.48
	@24h	5.65	5.62	5.64	5.64	5.00	5.79	5.66	5.66	5.67	5.63
	@ 48 h	5.73	5.63	5.66	5.70	4.98	5.75	5.72	5.75	5.75	5.64
acidity relative to controls	@24h	72	76	71	120	83	64	61	117	115	74
	@ 48 h	58	68	63	140	104	62	51	125	127	66
lactic acid [ $\mu$ M]	@ 48 h	7.4	<0.5	5.7	<0.5	<0.5	5.4	32.3	<0.5	<0.5	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	90	92	99	100	92	88		103	100	96
	40	64	74	104	101	67	59		91	91	90
cumulative gas [ml, 24 h]	10	90	84	96	97	85	86		97	102	85
	40	63	68	90	93	58	56		82	80	79
fermentation efficiency	10	100	109	103	103	109	102		106	98	113
	40	102	109	116	108	115	106		110	114	113
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	95	98	102	100	97	94	98	99	99	98
	Gas 10 (%)	94	98	105	98	93	94	91	98	100	102
	Fermn effic 10 (%)	102	99	97	102	104	101	108	101	99	96
	SCFA 10 (%)	103	103	102	96	105	94	92	96	97	99
	Microbial biomass	125	63	128	74	67	108	93	75	59	137
	C3/C2 at 10 (%)	97	96	97	102	94	96	92	100	100	96
<b>Leon data</b>											
	NDF (%)	44.2	35.7	33.4		33.7	68.0	24.7			43.7
<b>Methane formation</b>											
	Methane formed	96	99	101	100	88	92	93	94	103	90
<b>General effects</b>											
	Digestibility 10	100	106	107	99	99	92	100	93	94	95
	App. digestibility10	122	97	96	93	97	88	94	104	103	101
	Gas 10	99	100	101	98	98	90	104	90	94	97
	Fermn effic 10	101	113	111	101	102	102	102	103	101	99
	Microbial biomass	100	126	120	98	103	91	110	93	91	91
	C3/C2	111	99	100	103	97	99	98	87	91	97
	TVFA	110	109	119	97	95	95	104	94	99	94
<b>Rowett data</b>											
	Proteolysis	84.4	119.0	90.5	112.3	121.4	129.9	102.5	129.7	109.7	84.1
	Protozoa	96	99	90	92	82	93	2	102	99	89

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Euonymus alatus	Euonymus europeans	Eupatorium cannabinum	Euphorbia cyparissias	Euphorbia hyberna	Euphorbia lathyris	Fagopyrum esculentum	Fagus purpurea	Fagus sylvatica	Ferula nudiflora
	<b>Domestic Ref</b>	R029	R030	R031	H019	E021	UR077	H096	H020	R032	E100
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	4.00	3.67	3.00	3.33	3.17	3.17	4.33	3.17	3.83
cum. gas [ml]		120.0	129.5	126.6	127.6	130.4	119.9	124.8	120.7	115.4	134.8
foam height	@ 8h	39.0	47.5	42.0	34.0	41.0	47.5	39.0	35.0	33.0	46.5
	@ 16h	41.5	30.0	27.0	22.0	33.0	28.5	38.5	23.0	33.0	33.0
compression	@ 16h	0.476	0.589	0.739	0.759	0.762	0.402	0.738	0.674	0.665	0.564
<b>ACIDOSIS</b>											
pH	@1h	5.98	5.97	5.97	6.62	6.49	5.99	6.52	6.62	5.96	6.49
	@24h	4.91	5.06	5.13	5.59	5.58	5.12	5.64	5.63	5.03	5.62
	@ 48 h	4.96	5.00	5.01	5.59	5.56	5.03	5.63	5.69	4.97	5.64
acidity relative to controls	@24h	105	72	60	82	87	61	66	73	77	75
	@ 48 h	109	98	95	92	90	92	66	70	105	67
lactic acid [ $\mu$ M]	@ 48 h	5.0	5.7	1.4	9.2	3.9	<0.5	16.9	10.7	3.6	0.6
<b>GENERAL FERMENTATION</b>											
dmd [g g <sup>-1</sup> ]	10	94	101	103	102	101	102	99	96	89	102
	40	81	94	109	107	105	107	87	73	69	101
cumulative gas [ml, 24 h]	10	92	100	95	99	92	90	104	96	87	94
	40	87	91	92	86	88	85	83	76	70	86
fermentation efficiency	10	102	101	108	103	110	113	95	100	102	109
	40	94	104	118	124	119	126	105	96	98	116
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	102	100	104	100	101	98	101	98	101
	Gas 10 (%)	100	101	102	107	100	104	99	101	94	106
	Fermn effic 10 (%)	100	100	97	96	100	98	99	99	104	96
	SCFA 10 (%)	105	104	110	106	125	115	99	98	105	101
	Microbial biomass	114	112	60	80	109	183	111	47	72	108
	C3/C2 at 10 (%)	97	100	96	94	98	93	97	96	97	100
<b>Leon data</b>											
	NDF (%)	28.0	21.7	16.2	28.9	19.0	25.6	44.0	43.9	45.5	26.5
<b>Methane formation</b>											
	Methane formed	86	88	91	105	103	111	95	108	84	97
<b>General effects</b>											
	Digestibility 10	104	100	101	98	102	101	102	96	99	101
	App. digestibility10	97	87	107	95	106	82	90	95	98	124
	Gas 10	104	98	101	107	101	107	93	102	101	102
	Fermn effic 10	101	103	100	94	102	95	109	96	98	97
	Microbial biomass	106	102	101	93	104	96	113	92	97	89
	C3/C2	96	106	101	103	140	116	98	103	101	102
	TVFA	100	100	100	105	112	105	100	101	97	106
<b>Rowett data</b>											
	Proteolysis	70.9	94.1	83.7	125.2	111.6	112.2	100.7	98.7	68.2	92.4
	Protozoa	89	131	96	99	71	84	72	91	141	95

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Festuca paniculata	Ficus carica	Filipendula ulmaria	Filipendula vulgaris	Foeniculum vulgare	Foenum graecum	Forsythia x intermedia	Fraxinus excelsior	Fructus Forsythiae	Fucus vesiculosus
	<b>Domestic Ref</b>	E025	E163	H021	R033	UR054	UR120	R034	R035	A017	UR010
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	4.33	3.17	3.67	3.67	2.83	3.00	4.17	3.33	3.00	3.67
cum. gas [ml]		135.7	123.5	111.5	124.9	112.2	125.9	117.9	124.9	113.3	115.0
foam height	@ 8h	33.0	47.5	35.5	29.0	51.5	30.0	60.0	40.0	35.0	40.0
	@ 16h	34.5	31.0	21.0	34.5	33.5	29.0	36.0	33.0	30.0	29.0
compression	@ 16h	0.502	0.726	0.765	0.480	0.653	0.911	0.864	0.561	0.543	0.825
<b>ACIDOSIS</b>											
pH	@1h	6.51	6.52	6.62	5.93	5.95	6.54	5.95	5.95	6.55	5.97
	@24h	5.63	5.70	5.65	5.00	5.02	5.52	5.01	4.95	5.73	5.20
	@ 48 h	5.64	5.64	5.72	4.98	4.97	5.53	4.97	4.98	5.73	4.97
acidity relative to controls	@24h	77	81	70	82	79	85	81	95	74	49
	@ 48 h	73	81	65	103	104	86	106	103	65	106
lactic acid [ $\mu$ M]	@ 48 h	5.3	0.5	8.5	4.3	0.7	<0.5	2.2	<0.5	11.8	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	103	104	91	97	105	100	104	101	93	84
	40	100	110	71	79	111	109	98	99	73	66
cumulative gas [ml, 24 h]	10	94	94	95	91	94	98	96	97	83	82
	40	88	92	63	79	87	97	86	97	61	51
fermentation efficiency	10	109	111	95	106	111	102	108	104	111	103
	40	114	120	112	100	128	112	113	102	120	129
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	98	105	101	98	101	102	100	99	95	99
	Gas 10 (%)	103	106	95	93	103	104	102	101	93	97
	Fermn effic 10 (%)	95	98	107	105	98	97	98	98	102	103
	SCFA 10 (%)	104	106	97	103	124	117	108	104	93	98
	Microbial biomass	118	101	64	81	105	189	75	63	110	90
	C3/C2 at 10 (%)	99	96	98	101	93	106	99	98	96	95
<b>Leon data</b>											
	NDF (%)	64.3	18.9	33.5	26.8	27.4	22.7	21.8	28.9	62.1	30.2
<b>Methane formation</b>											
	Methane formed	100	105	108	87	98	87	94	97	97	91
<b>General effects</b>											
	Digestibility 10	106	111	96	100	103	103	101	100	94	102
	App. digestibility10	93	85	101	101	99	88	95	98	124	98
	Gas 10	100	102	104	101	102	88	99	100	92	95
	Fermn effic 10	107	115	97	99	102	121	102	100	103	109
	Microbial biomass	103	136	89	97	110	115	100	98	97	109
	C3/C2	107	96	102	103	105	99	105	108	100	101
	TVFA	103	105	106	99	94	100	100	98	95	104
<b>Rowett data</b>											
	Proteolysis	83.8	126.7	90.1	74.4	160.3	135.4	87.4	85.8	137.8	117.5
	Protozoa	88	109	100	86	94	20	79	172	96	118

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Fumaria officinalis	Galega officinalis	Galium aparine	Galium verum	gamma terpinene	Gaultheria procumbens	Genista florida	Genista tinctoria	Gentiana asclepiadea	geraniol
	<b>Domestic Ref</b>	E149	UR055	UR011	R036	C025	R037	E044	H022	R038	C026
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.67	2.67	3.83	4.33	3.67	4.17	4.50	3.00	4.67	3.17
cum. gas [ml]		123.8	125.7	124.5	122.4	116.8	117.2	126.1	124.3	125.3	111.5
foam height	@ 8h	35.0	35.0	37.5	39.0	28.5	30.0	44.5	34.0	37.0	29.0
	@ 16h	41.0	24.0	30.0	31.5	27.0	26.5	30.5	34.5	34.0	28.0
compression	@ 16h	0.605	0.802	0.558	0.682	0.775	0.657	0.738	0.364	0.628	0.738
<b>ACIDOSIS</b>											
pH	@1h	6.55	6.47	6.48	5.97	6.69	5.98	6.49	6.61	6.47	6.64
	@24h	5.80	5.55	5.50	5.05	5.65	4.96	5.64	5.58	5.64	5.71
	@ 48 h	5.79	5.53	5.47	5.03	5.83	4.96	5.62	5.61	5.60	5.82
acidity relative to controls	@24h	63	77	89	74	122	94	73	83	79	101
	@ 48 h	55	84	97	91	102	108	78	86	82	104
lactic acid [ $\mu$ M]	@ 48 h	<0.5	11.2	1.5	6.8	22.0	<0.5	6.6	12.1	<0.5	5.8
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	100	96	97	95	92	103	99	102	100
	40	97	94	104	83	80	80	101	88	98	83
cumulative gas [ml, 24 h]	10	92	102	96	95	88	95	99	95	96	96
	40	76	86	93	76	75	80	86	89	92	71
fermentation efficiency	10	108	98	100	103	108	98	105	104	106	104
	40	128	110	113	109	106	100	118	99	106	116
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	99	100	101	99	101	99	100	101	101	98
	Gas 10 (%)	101	103	105	97	101	99	108	102	104	101
	Fermn effic 10 (%)	98	97	95	102	99	100	93	99	97	97
	SCFA 10 (%)	103	105	122	106	98	105	108	97	111	97
	Microbial biomass	124	73	99	79	87	72	106	54	86	79
	C3/C2 at 10 (%)	97	91	96	99	101	98	96	96	97	100
<b>Leon data</b>											
	NDF (%)	36.6	32.3	30.6	46.4		35.6	33.9	54.0	18.3	
<b>Methane formation</b>											
	Methane formed	100	98	97	89	97	93	107	103	106	72
<b>General effects</b>											
	Digestibility 10	109	101	101	100	97	101	97	95	102	87
	App. digestibility10	100	92	97	94	94	90	91	82	98	100
	Gas 10	101	100	100	96	93	102	104	102	104	87
	Fermn effic 10	115	102	101	105	103	100	94	93	98	102
	Microbial biomass	133	104	101	106	95	104	93	87	97	82
	C3/C2	97	113	100	104	102	101	101	104	100	82
	TVFA	105	101	105	95	99	96	105	102	97	97
<b>Rowett data</b>											
	Proteolysis	90.7	112.4	138.0	88.0	124.6	71.3	82.0	89.1	104.2	113.9
	Protozoa	17	85	54	95	102	145	95	91	4	92



Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Geranium pyrenaicum	geranyl-acetat	Geum urbanum	Ginko Biloba	Glechoma hederacea	Gleditsia japonica	Glyceria maxima	glycyrrhizin	Glyerrhizae uralensis (IN)	Glyerrhizae uralensis (X)
	<b>Domestic Ref</b>	E083	C027	R039	A018	R040	H086	R107	C028	A038	A039
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	4.00	3.83	2.67	3.17	2.67	3.17	2.67	3.17	2.83	3.00
cum. gas [ml]		129.4	124.6	111.0	128.4	129.8	117.5	131.0	118.2	130.5	119.5
foam height	@ 8h	31.0	31.0	50.0	35.0	28.0	29.0	37.0	31.0	40.0	37.5
	@ 16h	29.0	37.5	35.5	26.0	29.5	37.0	30.0	34.0	31.5	31.5
compression	@ 16h	0.966	0.800	0.605	0.566	0.744	0.776	0.647	0.899	0.841	0.759
<b>ACIDOSIS</b>											
pH	@1h	6.47	6.63	6.51	6.49	6.47	6.53	6.47	6.54	6.49	6.50
	@24h	5.60	5.69	5.68	5.70	5.60	5.62	5.57	5.53	5.51	5.61
	@ 48 h	5.59	5.80	5.63	5.68	5.53	5.60	5.55	5.52	5.50	5.55
acidity relative to controls	@24h	78	107	71	80	79	69	86	87	87	66
	@ 48 h	76	109	76	72	82	71	77	87	90	80
lactic acid [ $\mu$ M]	@ 48 h	2.7	8.4	<0.5	<0.5	4.9	37.3	11.8	5.9	8.7	2.7
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	98	100	90	99	101	98	100	102	98	97
	40	95	93	74	85	105	84	105	90	90	75
cumulative gas [ml, 24 h]	10	88	98	85	93	109	98	100	89	89	86
	40	86	84	69	75	97	86	106	74	65	57
fermentation efficiency	10	111	102	105	106	93	100	100	115	110	113
	40	110	110	107	113	108	98	99	122	138	130
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	100	99	98	102	102	99	100	99	97	97
	Gas 10 (%)	99	99	93	97	104	101	102	97	100	98
	Fermn effic 10 (%)	101	100	105	105	98	98	98	103	97	98
	SCFA 10 (%)	99	97	105	96	110	99	101	98	99	107
	Microbial biomass	145	84	64	124	53	98	81	75	98	96
	C3/C2 at 10 (%)	98	100	103	100	98	96	104	102	97	95
<b>Leon data</b>											
	NDF (%)	32.5		40.6	27.0	20.0	39.9	47.1		39.2	48.5
<b>Methane formation</b>											
	Methane formed	109	96	85	100	99	97	105	86	107	99
<b>General effects</b>											
	Digestibility 10	97	100	93	99	105	101	100	97	98	97
	App. digestibility10	73	101	100	100	92	89	106	99	97	93
	Gas 10	99	100	94	97	104	93	108	97	97	98
	Fermn effic 10	99	99	99	103	103	109	94	100	102	99
	Microbial biomass	90	96	92	101	111	114	102	98	104	95
	C3/C2	103	89	104	104	98	100	98	103	107	104
	TVFA	104	102	88	101	103	97	84	94	104	101
<b>Rowett data</b>											
	Proteolysis	120.3	92.2	96.0	165.5	102.8	60.7	93.2	90.9	95.4	88.9
	Protozoa	98	89	99	100	93	101	111	102	84	89

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>										
		guaiacol	Halimium hieracium	Halimium lasianthum	Halimium umbellatum	Hedera helix	Helianthemum canum	Helianthus annuus	Helianthus tuberosum	Helichrysum triplinervis	Helleborus foetidus
	<b>Domestic Ref</b>	C029	E008	E133	E005	R041	E003	UR131	H103	R042	E041
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	3.17	4.33	3.00	3.83	3.67	4.00	3.50	2.67	2.83	4.00
cum. gas [ml]		128.1	110.0	114.7	115.6	125.2	105.4	132.2	128.4	134.4	141.0
foam height	@ 8h	41.5	35.0	46.5	31.0	53.0	42.5	30.0	30.0	32.5	37.5
	@ 16h	23.5	29.5	27.0	30.0	35.5	32.0	30.0	29.0	23.5	36.5
compression	@ 16h	0.720	0.733	0.846	0.583	0.620	0.596	0.253	0.839		0.353
<b>ACIDOSIS</b>											
pH	@1h	6.62	6.51	6.51	6.51	6.51	6.52	6.16	6.66	6.45	6.49
	@24h	5.67	5.73	5.73	5.68	5.65	5.62	5.65	5.78	5.65	5.63
	@ 48 h	5.75	5.64	5.67	5.63	5.62	5.66	5.57	5.90	5.56	5.63
acidity relative to controls	@24h	113	59	57	66	78	80	57	85	69	77
	@ 48 h	123	74	61	75	79	70	62	84	75	76
lactic acid [ $\mu$ M]	@ 48 h	12.3	5.4	19.3	-	<0.5	9.4	7.7	1.3	9.6	7.9
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	103	86	85	92	97	85	102	104	96	105
	40	96	59	54	61	99	43	115	106	92	113
cumulative gas [ml, 24 h]	10	94	80	77	80	96	79	95	96	97	96
	40	93	48	43	57	74	42	72	92	89	98
fermentation efficiency	10	109	107	110	114	101	107	108	108	98	109
	40	104	123	125	106	134	101	159	115	103	116
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	92	93	94	100	92	103	101	99	100
	Gas 10 (%)	99	80	84	88	103	82	100	101	101	108
	Fermn effic 10 (%)	102	117	111	107	98	115	102	100	99	93
	SCFA 10 (%)	96	89	110	94	107	92	114	97	113	108
	Microbial biomass	102	125	138	116	50	145	145	130	64	205
	C3/C2 at 10 (%)	102	101	107	100	101	100	103	96	101	95
<b>Leon data</b>											
	NDF (%)		51.2	36.8	46.1	30.4	48.7	42.7	19.3	43.0	21.5
<b>Methane formation</b>											
	Methane formed	105	83	87	93	105	90	88	129	89	112
<b>General effects</b>											
	Digestibility 10	97	98	107	99	105	98	98	103	100	100
	App. digestibility10	92	115	93	98	101	96	83	108	86	116
	Gas 10	101	96	102	100	104	97	90	99	94	102
	Fermn effic 10	95	102	111	100	101	102	110	103	106	99
	Microbial biomass	88	108	122	102	109	112	108	101	107	103
	C3/C2	101	111	96	116	105	97	93	105	93	98
	TVFA	102	91	113	97	100	80	94	99	95	100
<b>Rowett data</b>											
	Proteolysis	105.0	85.1	104.4	95.2	102.6	78.4	92.6	92.8	96.0	78.3
	Protozoa	99	76	73	73	45	73	82	107	66	83

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Helleborus orientalis	Helminthia echioides	Helychrysum sotoechas	Heracleum sphondylium	Hipochoeris radicata	Hirschfeldia incana	Houttuynia cordata	Humulus lupulus	Hyacinthoides non-scrip	Hydrangea petiolaris
	<b>Domestic Ref</b>	R043	E109	E012	R044	E137	E101	A021	UR012	UR089	R045
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	2.83	4.33	3.67	4.33	3.83	3.33	3.50	2.67	3.33	3.17
cum. gas [ml]		134.0	131.0	130.1	120.4	129.3	127.3	115.7	120.8	136.4	130.6
foam height	@ 8h	35.5	41.5	33.5	45.0	45.0	38.5	42.5	33.5	32.0	42.0
	@ 16h	27.0	28.5	27.5	29.0	33.5	36.0	32.0	33.5	27.5	32.5
compression	@ 16h	0.828	0.770	0.658	0.464	0.573	0.828	0.670	0.649	0.626	0.495
<b>ACIDOSIS</b>											
pH	@1h	6.50	6.49	6.50	6.48	6.50	6.50	6.55	6.48	6.49	6.48
	@24h	5.63	5.63	5.64	5.68	5.68	5.66	5.75	5.55	5.51	5.65
	@ 48 h	5.63	5.64	5.64	5.65	5.65	5.67	5.73	5.56	5.53	5.61
acidity relative to controls	@24h	81	73	74	70	84	67	70	77	85	77
	@ 48 h	76	67	73	72	78	62	65	78	84	79
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	4.7	<0.5	0.5	2.7	10.2	0.7	4.9	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	102	105	97	103	97	96	96	89	103	96
	40	109	105	90	108	100	93	88	59	101	90
cumulative gas [ml, 24 h]	10	96	99	95	91	90	85	95	79	95	92
	40	92	92	83	89	85	77	78	46	72	90
fermentation efficiency	10	107	106	103	114	108	113	101	112	108	104
	40	118	114	108	121	118	120	113	128	139	100
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	101	102	99	101	99	100	98	98	101	100
	Gas 10 (%)	103	103	101	101	104	104	97	93	99	101
	Fermn effic 10 (%)	98	99	99	100	95	96	101	105	102	100
	SCFA 10 (%)	113	102	142	108	108	100	97	95	102	107
	Microbial biomass	65	141	106	83	175	111	96	69	118	83
	C3/C2 at 10 (%)	98	98	98	100	98	96	98	93	94	99
<b>Leon data</b>											
	NDF (%)	23.4	21.0	50.2	21.4	37.0	37.8	46.4	38.4	24.3	23.5
<b>Methane formation</b>											
	Methane formed	102	92	99	101	102	99	102	88	113	105
<b>General effects</b>											
	Digestibility 10	105	106	97	107	106	101	97	96	101	108
	App. digestibility10	93	104	113	115	115	99	100	92	96	114
	Gas 10	103	93	99	100	101	100	98	90	102	104
	Fermn effic 10	101	121	98	106	110	100	99	108	100	104
	Microbial biomass	105	128	101	112	117	95	96	103	103	111
	C3/C2	103	99	99	104	104	97	108	107	102	110
	TVFA	101	112	95	101	116	103	99	96	101	107
<b>Rowett data</b>											
	Proteolysis	99.0	91.1	109.5	107.4	139.8	84.4	92.3	97.7	154.1	89.7
	Protozoa	111	90	95	96	90	106	92	40	79	50

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Hypericum perforatum	Hypericum perforatum	Hyssopus officinalis	Ilex aquifolium	Impatiens parviflora	Indigofera tinctoria	Inula magnifica	Iris germanica	Iris pseudacorus	Isatis tinctoria
	<b>Domestic Ref</b>	H023	H024	H025	UR091	H091	H097	R047	H113	E124	E088
<b>Reading data</b>											
<b>Bloat</b>											
viscosity	@24h	4.17	2.50	3.00	3.50	3.50	2.67	3.50	3.17	3.50	3.33
cum. gas [ml]		119.9	117.5	133.6	123.1	128.5	119.6	128.4	132.6	118.7	125.8
foam height	@ 8h	35.5	30.0	35.5	37.0	33.5	37.5	35.5	33.5	39.5	32.5
	@ 16h	21.5	27.0	26.5	36.0	38.0	33.0	28.0	36.5	26.5	32.5
compression	@ 16h	0.607	0.483	0.850	0.731	0.720	0.802	0.387	0.588	0.939	0.534
<b>ACIDOSIS</b>											
pH	@1h	6.59	6.61	6.60	6.52	6.51	6.51	6.45	6.66	6.48	6.50
	@24h	5.59	5.63	5.60	5.59	5.57	5.70	5.63	5.81	5.62	5.65
	@ 48 h	5.71	5.72	5.61	5.54	5.60	5.65	5.55	5.85	5.61	5.63
acidity relative to controls	@24h	81	74	78	70	78	55	72	79	76	70
	@ 48 h	67	65	87	82	72	62	76	95	72	68
lactic acid [ $\mu$ M]	@ 48 h	6.4	5.0	8.5	7.8	11.6	26.4	10.2	7.9	2.9	<0.5
<b>GENERAL FERMENTATION</b>											
dmd [ $g\ g^{-1}$ ]	10	100	94	101	101	102	96	98	99	102	95
	40	92	95	96	105	102	74	103	104	97	76
cumulative gas [ml, 24 h]	10	102	97	98	95	98	91	92	98	94	90
	40	83	86	96	83	103	71	93	92	92	78
fermentation efficiency	10	98	97	103	106	104	105	107	101	109	105
	40	111	111	100	126	99	104	112	112	106	98
<b>Hohenheim data</b>											
<b>Protein synthesis</b>											
	Protein formed										
<b>General effects</b>											
	Digestibility 10 (%)	102	102	103	101	101	98	101	100	100	99
	Gas 10 (%)	100	100	114	98	101	95	101	100	103	102
	Ferment eff 10 (%)	101	102	90	102	100	103	100	100	96	97
	SCFA 10 (%)	100	102	99	120	102	98	111	112	108	101
	Microbial biomass	52	60	77	193	128	139	64	89	106	118
	C3/C2 at 10 (%)	97	97	92	101	98	98	99	101	98	96
<b>Leon data</b>											
	NDF (%)	37.9	31.5	43.3	31.9	30.4	46.8	23.5	32.3	41.2	47.4
<b>Methane formation</b>											
	Methane formed	106	100	107	121	97	88	91	98	106	86
<b>General effects</b>											
	Digestibility 10	97	99	98	95	102	100	99	102	104	93
	App. digestibility10	99	96	109	94	86	91	106	102	85	97
	Gas 10	107	104	103	98	88	93	99	99	100	94
	Ferment eff 10	92	95	98	97	116	107	100	103	109	99
	Microbial biomass	87	94	100	90	117	103	99	105	118	88
	C3/C2	99	100	103	110	97	98	99	102	101	100
	TVFA	108	104	105	100	97	100	102	98	104	96
<b>Rowett data</b>											
	Proteolysis	96.7	96.0	96.5	106.0	110.5	82.4	81.6	114.5	85.8	89.1
	Protozoa	79	79	96	75	93	38	102	93	87	90

Comprehensive Summary

**Alpha1 (%)**

	<b>Botanical Name</b>	Jasione montana	Jasminum grandiflorum	Jasminum grandiflorum	Juglans nigra	Juglans regia	Juncus effusus
	<b>Domestic Ref</b>	E127	A022	A023	R048	H026	UR088
<b>Reading data</b>							
<b>Bloat</b>							
viscosity	@24h	4.33	2.83	3.17	4.00	4.67	2.50
cum. gas [ml]		134.2	125.4	119.4	127.3	125.5	120.0
foam height	@ 8h	35.0	47.5	40.0	49.5	28.0	39.0
	@ 16h	32.0	38.0	34.5	27.5	31.0	34.5
compression	@ 16h	0.625	0.535	0.480	0.726	0.440	0.532
<b>ACIDOSIS</b>							
pH	@1h	6.47	6.50	6.53	6.48	6.62	5.92
	@24h	5.61	5.67	5.70	5.67	5.59	5.09
	@ 48 h	5.63	5.65	5.66	5.62	5.62	5.02
acidity relative to controls	@24h	78	86	81	73	82	66
	@ 48 h	68	79	77	78	83	92
lactic acid [ $\mu$ M]	@ 48 h	<0.5	2.7	10.7	<0.5	3.6	2.2
<b>GENERAL FERMENTATION</b>							
dmd [ $g\ g^{-1}$ ]	10	101	101	99	97	95	94
	40	98	96	99	96	101	77
cumulative gas [ml, 24 h]	10	95	100	95	96	96	86
	40	83	84	70	83	92	69
fermentation efficiency	10	105	101	104	101	99	110
	40	118	114	142	116	111	112
<b>Hohenheim data</b>							
<b>Protein synthesis</b>							
	Protein formed						
<b>General effects</b>							
	Digestibility 10 (%)	99	100	100	100	104	96
	Gas 10 (%)	105	102	101	100	103	97
	Fermn effic 10 (%)	94	98	99	100	101	99
	SCFA 10 (%)	108	98	101	104	103	98
	Microbial biomass	93	96	90	83	40	117
	C3/C2 at 10 (%)	97	98	89	99	100	99
<b>Leon data</b>							
	NDF (%)	36.2	32.5	22.9	29.9	26.8	71.4
<b>Methane formation</b>							
	Methane formed	103	102	101	104	108	115
<b>General effects</b>							
	Digestibility 10	106	99	98	106	103	96
	App. digestibility10	112	89	114	102	99	112
	Gas 10	99	98	96	101	108	100
	Fermn effic 10	111	101	102	104	98	96
	Microbial biomass	117	99	99	108	104	93
	C3/C2	101	100	93	110	103	122
	TVFA	119	101	101	101	106	95
<b>Rowett data</b>							
	Proteolysis	120.2	97.4	136.9	93.1	98.8	106.2
	Protozoa	98	64	70	141	95	89

Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	Juncus lamprocarpus	Juniperus communis	Juniperus thurifera	Knautia arvensis	Laminaria digitata	Lamium album	Lamium maculatum	Lapa major	Lactuca sativa
	Domestic Ref	E111	UR058	E077	E073	UR014	UR015	E048	E099	UR013
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	4.00	3.00	3.50	4.00	3.83	4.00	4.50	4.00	3.17
cum. gas [ml]		125.7	131.1	119.1	126.0	113.7	134.2	123.8	130.6	116.6
foam height	@ 8h	37.0	38.0	34.5	35.0	36.0	42.5	37.0	39.0	29.0
	@ 16h	24.0	27.0	30.0	31.5	28.0	27.5	21.5	34.0	24.5
compression	@ 16h		0.347	0.872	0.747	0.294	0.624	0.125	0.652	0.737
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.46	6.50	6.47	6.50	5.96	6.49	6.46	6.50
	@24h	5.68	5.47	5.63	5.57	5.75	5.05	5.61	5.63	5.66
	@ 48 h	5.73	5.47	5.60	5.59	5.67	5.00	5.68	5.62	5.64
acidity relative to controls	@24h	65	94	76	89	46	74	80	73	58
	@ 48 h	53	98	81	84	58	97	65	69	63
lactic acid [ $\mu$ M]	@ 48 h	<0.5	2.6	<0.5	4.1	3.0	<0.5	7.2	<0.5	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	95.8	98.5	99.4	99.1	87.6	103.5	102.1	102.8	102.2
	40	74.6	88.6	69.8	96.1	74.4	107.3	101.0	101.1	109.4
cumulative gas [ml, 24 h]	10	89.3	102.9	91.7	96.1	94.3	94.8	90.4	92.9	95.2
	40	71.3	87.2	65.9	90.1	59.4	91.5	85.2	82.7	78.5
fermentation efficiency	10	107.3	95.7	108.4	103.2	92.9	109.3	113.0	110.7	107.4
	40	104.5	101.7	105.9	106.6	125.2	117.3	118.5	122.3	139.2
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	96	100	99	100	100	100	98	101	101
	Gas 10	98	102	103	103	94	104	102	101	97
	Fermn effic 10	98	98	96	97	106	97	96	100	104
	SCFA 10	98	105	101	102	114	118	101	99	102
	Microbial biomass	106	99	141	129	58	89	168	110	84
	C3/C2 at 10	98	103	93	97	96	97	96	97	90
<b>Leon data</b>										
	NDF (%)	72.1	22.7	35.7	34.8	25.3	25.9	33.1	25.3	18.6
<b>Methane formation</b>										
	Methane formed	96	101	105	97	92	101	107	94	86
<b>General effects</b>										
	Digestibility 10	101	101	98	92	103	103	99	100	101
	App. digestibility10	93	101	109	101	93	81	88	99	96
	Gas 10	96	102	97	88	92	101	97	100	96
	Fermn effic 10	111	99	102	105	111	102	102	101	106
	Microbial biomass 10	117	100	96	93	113	104	96	97	105
	C3/C2	99	105	90	99	104	101	89	94	96
	TVFA	102	103	96	86	99	109	97	102	103
<b>Rowett data</b>										
	Proteolysis	94.2	97.2	120.2	104.6	96.9	82.8	86.8	97.0	154.4
	Protozoa	93	80	64	82	112	108	106	100	67

Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	Laurus nobilis	Laurus virosa	Lavandula angustifolia MIL	Lavandula stoechas L (pe	Lavatera arborea	l-carvone	Levisticum officinale	Lewisia rediviva	Ligustrum vulgare
	Domestic Ref	E165	UR016	H027	E002	UR090	C032	H028	A024	H029
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.67	2.50	2.83	2.00	2.83	3.50	3.67	2.83	3.33
cum. gas [ml]	@ 24h	112.1	122.9	126.5	111.9	128.3	111.4	123.7	123.2	134.4
foam height	@ 8h	37.5	63.0	37.0	37.5	35.0	30.5	40.0	37.5	28.5
	@ 16h	32.5	36.0	23.5	34.0	21.0	34.0	26.5	37.0	27.5
compression	@ 16h	0.595	0.600	0.733	0.556		0.779	0.532	0.606	0.486
<b>ACIDOSIS</b>										
pH	@1h	6.49	5.96	6.62	6.51	6.52	6.66	6.58	6.52	6.62
	@24h	5.70	5.01	5.64	5.63	5.60	5.67	5.57	5.74	5.57
	@ 48 h	5.64	4.99	5.71	5.67	5.57	5.78	5.60	5.69	5.75
acidity relative to controls	@24h	80	82	72	77	68	113	84	71	85
	@ 48 h	80	99	66	67	76	117	88	71	60
lactic acid [ $\mu$ M]	@ 48 h	11.8	<0.5	5.0	5.4	5.5	11.7	4.3	<0.5	5.0
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	94.2	101.6	94.7	89.1	98.3	99.5	104.3	97.6	101.3
	40	83.2	99.9	90.9	85.0	100.8	97.9	106.4	89.5	97.1
cumulative gas [ml, 24 h]	10	89.7	91.3	92.8	93.9	99.9	93.8	96.0	90.3	96.5
	40	69.3	86.9	81.3	83.3	81.0	88.1	93.3	79.3	94.7
fermentation efficiency	10	105.0	111.3	102.1	94.8	98.5	106.1	108.7	108.1	105.0
	40	120.0	114.9	111.9	102.0	124.5	111.2	114.0	112.9	102.5
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	100	102	98	100	100	105	97	101
	Gas 10	99	102	102	99	102	98	104	102	97
	Fermn effic 10	102	99	99	99	97	101	101	96	104
	SCFA 10	96	120	99	102	125	100	102	99	97
	Microbial biomass	87	93	64	201	152	89	77	104	52
	C3/C2 at 10	96	99	96	97	97	99	97	100	96
<b>Leon data</b>										
	NDF (%)	45.9	42.0	42.1	52.0	34.4		20.6	33.7	24.1
<b>Methane formation</b>										
	Methane formed	98	94	101	93	117	95	104	105	111
<b>General effects</b>										
	Digestibility 10	105	101	97	98	101	97	106	97	103
	App. digestibility10	96	97	114	97	88	93	101	117	97
	Gas 10	96	103	98	96	105	96	104	98	111
	Fermn effic 10	115	99	100	102	96	100	106	99	96
	Microbial biomass 10	125	99	98	107	98	91	117	94	105
	C3/C2	96	110	100	91	108	103	104	104	107
	TVFA	108	109	98	91	99	106	102	101	103
<b>Rowett data</b>										
	Proteolysis	92.9	99.9	72.4	109.9	98.1	91.6	78.6	78.5	90.9
	Protozoa	115	94	91	99	82	95	95	60	70



Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	limonene	linalool	Linaria vulgaris MILL.	Linum narbonnense	Linum usitatissimum	Liriodendron tulipifera	l-menthol	Lobelia inflata	Lonicera etrusca
	Domestic Ref	C030	C031	H030	E125	UR017	H081	C034	UR018	E143
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	4.33	3.17	3.50	3.50	4.00	2.50	4.00	2.67	2.50
cum. gas [ml]		113.8	114.0	127.0	135.3	130.7	137.4	120.3	121.9	122.0
foam height	@ 8h	34.0	35.0	30.5	45.0	31.5	38.0	36.5	33.0	25.0
	@ 16h	32.5	28.5	20.5	37.0	36.0	33.5	34.0	27.5	24.0
compression	@ 16h	0.689	0.667	0.591	0.569	0.740	0.791	0.828	0.725	0.483
<b>ACIDOSIS</b>										
pH	@1h	6.65	6.71	6.59	6.48	6.47	6.65	6.53	6.49	6.53
	@24h	5.72	5.67	5.55	5.58	5.63	5.71	5.55	5.56	5.66
	@ 48 h	5.78	5.76	5.58	5.59	5.58	5.84	5.55	5.53	5.62
acidity relative to controls	@24h	101	114	90	84	74	103	83	76	89
	@ 48 h	115	124	93	76	71	98	81	84	86
lactic acid [ $\mu$ M]	@ 48 h	13.6	9.7	0.7	4.3	0.6	6.6	<0.5	1.5	5.5
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	97.9	96.6	97.0	100.5	97.5	101.5	96.0	100.1	98.4
	40	83.0	89.1	96.0	97.7	98.3	95.4	87.9	104.2	99.3
cumulative gas [ml, 24 h]	10	91.8	94.2	91.7	93.7	93.8	91.8	91.8	101.1	91.9
	40	76.5	80.5	84.9	87.7	75.6	86.6	71.7	96.0	86.8
fermentation efficiency	10	106.7	102.5	105.7	107.3	103.9	110.5	104.5	99.0	107.1
	40	108.4	110.7	113.0	111.4	130.1	110.2	122.7	108.5	114.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	99	97	102	99	100	101	98	100	101
	Gas 10	98	96	100	104	99	103	98	104	107
	Fermn effic 10	102	101	102	94	101	98	100	97	94
	SCFA 10	95	93	98	105	107	101	124	106	105
	Microbial biomass	90	97	70	99	89	135	125	81	104
	C3/C2 at 10	101	97	98	100	100	93	103	96	94
<b>Leon data</b>										
	NDF (%)			29.1	39.6	47.4	26.8		28.3	31.4
<b>Methane formation</b>										
	Methane formed	97	90	114	100	93	96	95	95	104
<b>General effects</b>										
	Digestibility 10	95	97	102	104	99	103	97	100	107
	App. digestibility10	112	90	93	108	118	95	102	93	102
	Gas 10	97	95	107	95	95	100	98	102	99
	Fermn effic 10	99	102	97	117	104	104	98	99	114
	Microbial biomass 10	92	97	102	116	102	107	86	98	128
	C3/C2	94	99	105	105	103	92	99	103	100
	TVFA	102	100	105	120	104	105	99	110	111
<b>Rowett data</b>										
	Proteolysis	86.1	79.9	95.9	109.5	138.0	81.6	85.7	103.8	161.3
	Protozoa	100	102	90	105	117	117	95	91	52

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Lonicera japonica	Lonicera periclymenum	Lonicera periclymenum fr	Lonicera japonica	Lonicera japonica (flower)	Lotus corniculatus	Lycopersicum esculentum	Lycopus europaeus	Lythrum salicaria
	<b>Domestic Ref</b>	R049	R050	UR116	A025	A026	H070	UR029	H031	H032
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.50	2.83	3.67	3.33	3.50	3.33	3.17	5.00	4.17
cum. gas [ml]	@24h	125.8	129.6	140.0	130.0	127.4	124.1	136.2	123.0	113.6
foam height	@ 8h	32.0	47.5	29.0	27.5	40.0	41.0	28.5	32.0	26.5
	@ 16h	35.0	32.5	24.5	29.5	35.0	27.0	25.5	18.5	29.5
compression	@ 16h	0.673	0.795	0.964	0.863	0.738	0.822	0.545	0.609	0.427
<b>ACIDOSIS</b>										
pH	@1h	6.50	6.47	6.44	6.50	6.50	6.50	6.53	6.63	6.61
	@24h	5.53	5.69	5.52	5.59	5.65	5.59	5.57	5.67	5.60
	@ 48 h	5.53	5.64	5.51	5.56	5.59	5.63	5.56	5.83	5.59
acidity relative to controls	@24h	87	68	98	106	91	86	74	67	79
	@ 48 h	86	74	84	100	92	75	78	49	90
lactic acid [ $\mu$ M]	@ 48 h	16.9	<0.5	1.9	5.4	<0.5	4.7	3.0	<0.5	9.2
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	106.2	103.4	103.4	98.6	98.5	95.4	98.1	97.8	92.2
	40	104.1	102.7	111.5	106.0	97.8	94.5	103.3	88.4	86.0
cumulative gas [ml, 24 h]	10	94.9	97.5	99.7	94.8	91.3	88.4	96.2	93.1	85.8
	40	90.6	86.8	103.5	91.3	82.0	86.3	91.3	81.5	74.7
fermentation efficiency	10	111.9	106.1	103.7	104.0	107.9	107.9	101.9	105.1	107.4
	40	115.0	118.3	107.7	116.2	119.3	109.5	113.1	108.5	115.1
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	101	101	102	100	99	100	101	100
	Gas 10	101	100	102	103	102	102	104	99	90
	Fermn effic 10	100	101	99	99	98	97	96	103	112
	SCFA 10	108	109	120	102	102	104	101	99	93
	Microbial biomass	69	61	97	104	97	127	125	72	76
	C3/C2 at 10	98	97	111	96	97	97	99	94	104
<b>Leon data</b>										
	NDF (%)	25.7	28.6	22.7	23.7	20.9	36.9	41.0	40.5	32.9
<b>Methane formation</b>										
	Methane formed	98	105	89	108	106	102	97	107	110
<b>General effects</b>										
	Digestibility 10	103	106	99	99	95	106	103	100	102
	App. digestibility10	124	113	90	100	98	115	101	103	92
	Gas 10	101	99	95	102	100	104	102	102	104
	Fermn effic 10	103	107	105	96	97	103	105	97	100
	Microbial biomass 10	107	113	106	93	91	105	114	90	106
	C3/C2	90	109	102	97	104	89	103	103	100
	TVFA	103	99	94	103	105	111	99	105	100
<b>Rowett data</b>										
	Proteolysis	97.7	103.8	105.6	112.4	113.3	94.7	127.8	76.5	89.1
	Protozoa	79	87	92	40	18	92	80	94	74

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Macleaya cordata	Magnolia officinalis	Magnolia officinalis + Lonicera	Mahonia aquifolium	Malus sylvestris	Malva meluca	Malva sylvestris	Marrubium vulgare	Massa fermentata medicinis
	<b>Domestic Ref</b>	R051	A028	A027	R052	R053	H033	E098	E108	A029
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.83	2.83	3.33	3.33	3.67	3.33	3.50	3.83	3.00
cum. gas [ml]	@ 24h	122.1	115.4	120.7	121.9	130.2	127.7	126.9	128.5	126.0
foam height	@ 8h	63.0	37.5	37.5	31.5	44.5	31.0	30.5	40.0	37.5
	@ 16h	31.5	31.0	32.5	29.0	32.0	22.5	30.5	32.5	34.0
compression	@ 16h	0.903	0.415	0.638	0.492	0.703	0.201	0.753	0.763	0.571
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.56	6.55	6.47	6.47	6.60	6.49	6.47	6.51
	@24h	5.68	5.69	5.67	5.60	5.65	5.64	5.62	5.62	5.63
	@ 48 h	5.62	5.58	5.64	5.56	5.60	5.66	5.61	5.63	5.58
acidity relative to controls	@24h	71	83	87	88	75	71	75	75	98
	@ 48 h	78	96	82	91	81	76	71	67	94
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	<0.5	2.0	6.8	<0.5	<0.5	<0.5	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	101.6	93.5	96.9	97.5	98.9	101.3	101.2	98.7	104.9
	40	81.1	82.2	89.3	91.8	85.8	101.4	104.1	87.3	106.4
cumulative gas [ml, 24 h]	10	87.7	88.7	90.5	97.1	98.2	95.4	97.1	95.4	94.9
	40	75.2	82.9	81.6	82.8	77.3	89.3	88.0	87.5	89.3
fermentation efficiency	10	115.8	105.4	107.1	100.4	100.7	106.1	104.3	103.5	110.6
	40	107.9	99.1	109.3	110.8	111.0	113.5	118.3	99.7	119.1
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	97	98	97	99	102	100	99	99
	Gas 10	98	99	100	98	97	103	103	100	106
	Fermn effic 10	102	98	98	99	103	99	97	98	94
	SCFA 10	105	97	99	103	105	104	102	98	103
	Microbial biomass	80	129	103	93	76	92	148	136	135
	C3/C2 at 10	98	97	97	98	100	97	95	96	98
<b>Leon data</b>										
	NDF (%)	22.3	50.8	36.5	45.0	25.1	32.2	20.8	41.4	28.0
<b>Methane formation</b>										
	Methane formed	98	109	108	97	88	119	99	103	113
<b>General effects</b>										
	Digestibility 10	105	95	96	102	98	104	101	104	97
	App. digestibility10	113	98	97	104	85	106	91	111	98
	Gas 10	98	98	99	98	85	108	104	101	99
	Fermn effic 10	106	98	97	103	114	99	98	109	99
	Microbial biomass 10	112	93	91	103	109	107	94	117	94
	C3/C2	111	106	104	108	110	105	97	98	105
	TVFA	94	99	102	98	92	103	106	108	103
<b>Rowett data</b>										
	Proteolysis	92.4	104.9	91.8	103.4	95.3	110.7	100.8	82.8	92.5
	Protozoa	19	83	5	78	77	100	79	97	102

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Mastocarpus stellatus	Matricaria perforata	Meililotus officinalis	Melissa officinalis	Mentha arvensis	Mentha piperita	Mentha pulegium	Menthae haplocalyx	menthone
	<b>Domestic Ref</b>	UR101	UR092	E091	H034	R054	H035	E167	A030	C035
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.50	3.33	3.50	3.33	2.83	4.17	2.50	2.83	4.50
cum. gas [ml]		122.0	134.1	127.5	123.5	129.5	114.9	129.8	114.9	121.1
foam height	@ 8h	32.5	36.0	46.5	43.0	53.5	40.0	42.5	40.0	40.0
	@ 16h	27.5	32.0	33.0	24.0	27.0	36.0	33.5	29.0	37.5
compression	@ 16h	0.407	0.726	0.709	0.271	0.621	0.722	0.739	0.725	0.634
<b>ACIDOSIS</b>										
pH	@1h	6.55	6.45	6.49	6.61	6.50	6.61	6.52	6.52	6.65
	@24h	5.65	5.63	5.67	5.65	5.73	5.58	5.62	5.71	5.71
	@ 48 h	5.61	5.59	5.67	5.65	5.72	5.62	5.58	5.63	5.79
acidity relative to controls	@24h	60	72	67	70	62	83	99	78	103
	@ 48 h	69	68	61	78	59	85	95	84	112
lactic acid [ $\mu$ M]	@ 48 h	<0.5	1.3	4.1	<0.5	4.7	<0.5	2.7	<0.5	10.4
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	92.3	93.2	101.6	98.7	103.1	96.4	98.9	98.4	100.8
	40	79.9	99.5	99.0	100.2	101.9	92.6	105.0	95.5	90.9
cumulative gas [ml, 24 h]	10	95.5	104.6	89.4	95.7	94.4	91.4	94.4	89.0	93.1
	40	65.2	98.9	86.4	81.5	82.5	81.9	91.3	73.5	76.7
fermentation efficiency	10	96.6	89.1	113.7	103.1	109.3	105.4	104.8	110.6	108.3
	40	122.5	100.6	114.6	123.0	123.6	113.0	115.1	129.9	118.5
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	101	101	103	100	102	105	100	99
	Gas 10	96	101	108	103	99	101	109	101	96
	Fermn effic 10	104	99	92	100	101	101	96	98	103
	SCFA 10	112	125	106	96	105	104	107	101	98
	Microbial biomass	100	155	150	76	67	78	59	116	116
	C3/C2 at 10	99	96	97	93	96	93	95	92	101
<b>Leon data</b>										
	NDF (%)	16.7	28.2	30.5	33.0	20.0	42.8	29.1	31.5	
<b>Methane formation</b>										
	Methane formed	107	122	93	107	95	107	102	103	100
<b>General effects</b>										
	Digestibility 10	104	99	99	99	105	98	105	97	98
	App. digestibility10	90	90	98	102	111	99	114	97	98
	Gas 10	104	106	99	101	95	109	101	95	100
	Fermn effic 10	100	93	100	96	110	89	109	105	98
	Microbial biomass 10	102	92	94	94	111	92	120	102	93
	C3/C2	103	111	101	98	107	101	98	102	101
	TVFA	109	103	100	97	100	88	100	101	101
<b>Rowett data</b>										
	Proteolysis	101.7	110.4	95.6	112.0	90.9	82.7	95.2	103.4	79.8
	Protozoa	103	89	74	77	77	97	103	75	93

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Menyanthes trifoliata	Mercurialis perennis	Metasequoia glyptostroboides	methyl-salicylate	Monarda didyma	Monarda punctata	myrcene	Myrica gale	Myristica fragrans
	<b>Domestic Ref</b>	R101	UR082	H085	C036	H036	UR063	C037	R092	UR019
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.67	4.33	3.33	3.17	2.17	3.17	3.83	3.33	2.50
cum. gas [ml]		126.4	128.3	111.0	124.4	136.8	127.2	109.4	112.7	115.1
foam height	@ 8h	32.0	32.5	32.5	34.0	33.0	33.5	31.5	34.0	36.5
	@ 16h	24.0	26.0	33.5	33.5	16.5	26.5	29.5	33.5	35.0
compression	@ 16h	0.867	0.833	0.651	0.526	0.867	0.759	0.518	0.834	0.508
<b>ACIDOSIS</b>										
pH	@1h	6.49	5.97	6.52	6.67	6.61	6.52	6.66	6.52	6.52
	@24h	5.65	5.11	5.78	5.73	5.55	5.54	5.70	5.60	5.52
	@ 48 h	5.56	5.01	5.68	5.75	5.55	5.54	5.78	5.60	5.50
acidity relative to controls	@24h	70	63	45	98	89	79	105	73	84
	@ 48 h	75	96	58	127	100	83	115	71	91
lactic acid [ $\mu$ M]	@ 48 h	7.2	0.7	18.7	9.7	3.5	<0.5	11.0	24.2	6.0
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	100.9	101.8	94.5	103.6	98.1	96.9	102.6	90.1	87.7
	40	105.0	104.0	57.1	98.3	91.9	99.4	89.4	52.9	65.3
cumulative gas [ml, 24 h]	10	107.4	95.0	87.0	95.0	99.5	97.2	99.9	93.1	94.1
	40	95.7	88.7	55.0	92.0	86.7	88.5	81.7	52.7	68.2
fermentation efficiency	10	93.9	107.1	108.6	109.1	98.6	99.7	102.6	96.7	93.3
	40	109.7	117.1	103.7	106.8	106.0	112.3	109.4	100.2	95.7
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	100	100	99	102	101	99	97	100
	Gas 10	101	104	95	98	103	101	97	91	100
	Fermn effic 10	100	96	105	101	99	100	103	106	100
	SCFA 10	110	114	98	96	102	100	96	101	105
	Microbial biomass	80	204	107	83	72	149	97	108	80
	C3/C2 at 10	99	95	97	100	92	94	104	97	99
<b>Leon data</b>										
	NDF (%)	18.4	33.8	23.9		35.7	30.5		32.6	27.5
<b>Methane formation</b>										
	Methane formed	103	116	93	109	116	101	90	86	89
<b>General effects</b>										
	Digestibility 10	104	101	102	96	102	102	96	100	98
	App. digestibility10	98	102	97	92	112	102	93	91	84
	Gas 10	103	104	105	101	111	100	96	103	94
	Fermn effic 10	102	98	99	95	92	102	100	98	105
	Microbial biomass 10	108	101	105	89	94	107	95	100	101
	C3/C2	94	105	93	99	96	98	86	91	105
	TVFA	105	100	103	97	105	94	99	100	104
<b>Rowett data</b>										
	Proteolysis	106.9	102.2	91.1	65.9	113.1	97.5	109.8	96.7	110.3
	Protozoa	46	97	72	107	92	87	68	106	87

Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	myristic-acid	Myrrhis odorata	narcissin	Narcissus sp.	Nepeta cataria	nerol	Nigella sativa	Ocimum basilicum	Oenanthe crocata
	Domestic Ref	C038	R055	C039	UR028	UR136	C040	H094	UR020	UR080
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.33	3.33	3.50	3.00	3.83	3.83	3.33	3.00	2.33
cum. gas [ml]	@ 24h	118.6	127.4	117.5	136.2	126.9	121.1	125.0	138.6	123.9
foam height	@ 8h	31.5	47.5	31.0	43.0	33.5	36.0	33.0	33.0	43.0
	@ 16h	31.0	29.5	32.5	35.0	30.5	34.5	32.0	34.0	27.0
compression	@ 16h	0.500	0.207	0.721	0.842	0.349	0.628	0.635	0.424	0.421
<b>ACIDOSIS</b>										
pH	@1h	6.54	6.49	6.20	6.46	6.49	6.54	6.51	6.48	5.94
	@24h	5.51	5.67	5.45	5.60	5.67	5.62	5.63	5.66	4.98
	@ 48 h	5.51	5.64	5.48	5.53	5.59	5.72	5.60	5.61	4.98
acidity relative to controls	@24h	91	73	96	78	66	69	66	68	88
	@ 48 h	91	73	85	80	70	52	70	66	102
lactic acid [ $\mu$ M]	@ 48 h	0.1	4.7	1.6	4.5	0.6	<0.5	7.3	1.9	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	99.0	100.7	99.6	98.6	95.9	100.0	104.2	97.3	104.3
	40	94.4	92.2	99.2	105.5	91.1	75.4	98.1	91.8	106.6
cumulative gas [ml, 24 h]	10	95.5	101.6	93.8	99.0	99.4	89.4	101.9	103.5	94.8
	40	92.9	85.1	86.9	89.3	87.0	66.7	82.2	87.4	85.4
fermentation efficiency	10	103.6	99.1	106.2	99.7	96.5	111.8	102.3	94.0	110.0
	40	101.6	108.4	114.1	118.1	104.6	113.2	119.3	105.0	124.9
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	99	101	99	100	100	98	99	102	101
	Gas 10	98	101	99	101	102	97	99	100	103
	Fermn effic 10	102	100	101	99	98	102	100	102	98
	SCFA 10	97	108	100	103	118	96	100	124	108
	Microbial biomass	64	73	55	222	140	73	128	99	176
	C3/C2 at 10	101	98	100	104	98	100	102	92	98
<b>Leon data</b>										
	NDF (%)		27.9		26.4	38.9		39.2	29.1	22.9
<b>Methane formation</b>										
	Methane formed	105	104	107	88	90	99	97	92	116
<b>General effects</b>										
	Digestibility 10	99	100	99	102	102	94	100	99	102
	App. digestibility10	93	87	93	95	99	91	101	92	98
	Gas 10	99	98	100	97	102	96	95	98	107
	Fermn effic 10	98	102	98	109	100	98	106	101	96
	Microbial biomass 10	97	100	96	115	104	88	103	99	97
	C3/C2	97	110	93	105	93	81	104	99	114
	TVFA	94	98	99	96	99	104	106	103	107
<b>Rowett data</b>										
	Proteolysis	75.5	95.2	87.0	123.9	83.9	82.8	85.4	103.9	102.6
	Protozoa	88	164	87	85	94	104	31	101	83

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Cenothera biennis	Olea europaea	Ononis repens	Origanum majorana	Origanum vulgare	Paeonia officinalis	Paeoniae alba	Panax quinquefolius	Papaver rhoeas
	<b>Domestic Ref</b>	H037	A031	R097	UR122	A032	UR095	A040	A033	E113
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.83	3.17	3.33	3.17	3.33	3.00	3.17	2.83	4.33
cum. gas [ml]	@24h	118.6	118.8	120.7	123.5	120.4	122.1	142.3	134.1	131.9
foam height	@ 8h	35.0	33.5	28.0	32.0	30.0	36.0	35.0	30.0	41.0
	@ 16h	33.0	34.5	24.5	24.5	35.0	32.0	33.5	29.0	22.0
compression	@ 16h	0.655	0.668	0.143	0.117	0.286	0.722	0.573	0.846	0.864
<b>ACIDOSIS</b>										
pH	@1h	6.61	6.52	6.53	6.52	6.52	6.46	6.50	6.55	6.48
	@24h	5.58	5.49	5.64	5.54	5.71	5.69	5.42	5.62	5.64
	@ 48 h	5.61	5.51	5.60	5.55	5.67	5.58	5.43	5.56	5.63
acidity relative to controls	@24h	83	97	66	81	78	62	108	99	72
	@ 48 h	86	91	71	81	75	72	109	101	69
lactic acid [ $\mu$ M]	@ 48 h	9.9	9.4	17.6	0.7	0.7	7.0	4.0	<0.5	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	87.5	92.4	99.4	97.6	95.1	89.6	103.7	104.1	100.5
	40	86.4	88.6	100.3	87.8	81.8	89.3	111.9	113.1	100.0
cumulative gas [ml, 24 h]	10	88.7	84.0	91.9	92.7	89.5	92.9	99.8	102.3	94.5
	40	83.2	63.0	81.3	83.7	72.8	87.5	107.1	105.3	87.8
fermentation efficiency	10	98.6	110.0	108.1	105.3	106.3	96.4	103.9	101.8	106.4
	40	103.8	140.6	123.4	104.9	112.4	102.0	104.5	107.4	113.8
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	99	100	101	98	100	100	101	100
	Gas 10	91	94	100	100	100	95	108	111	103
	Fermn effic 10	112	106	99	101	98	105	93	91	97
	SCFA 10	90	92	110	114	98	116	110	110	103
	Microbial biomass	71	76	111	143	115	135	98	122	110
	C3/C2 at 10	108	95	97	100	93	103	98	103	96
<b>Leon data</b>										
	NDF (%)	32.8	0.5	47.1	34.7	27.9	17.1	49.6	18.6	30.7
<b>Methane formation</b>										
	Methane formed	118	100	104	91	105	108	46 - 92	119	97
<b>General effects</b>										
	Digestibility 10	100	98	103	100	98	101	103	100	108
	App. digestibility10	93	93	96	93	102	89	10 - 11	106	118
	Gas 10	111	102	103	99	96	105	109	106	102
	Fermn effic 10	89	103	100	102	103	97	95	96	112
	Microbial biomass 10	93	110	103	106	101	99	100	95	124
	C3/C2	94	93	96	92	107	90	105	109	94
	TVFA	93	99	107	95	100	105	109	108	116
<b>Rowett data</b>										
	Proteolysis	104.3	70.0	103.5	99.5	83.4	80.5	82.9	104.4	93.9
	Protozoa	91	12	121	79	97	79	103	91	102



Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Parrotia persica	Passiflora incarnata	p-cymene	Peltiphyllum peltatum	Pelvetia canaliculata	Pentaglottis sempervirens	Pericardium citri reticulata	Petasites hybridus	Petroselinum crispum
	<b>Domestic Ref</b>	R117	UR118	C041	R114	UR084	E047	A034	R105	UR102
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.17	3.83	3.67	2.67	4.17	4.50	2.67	3.67	3.33
cum. gas [ml]	@ 24h	118.5	134.6	114.7	113.8	109.5	123.1	143.8	123.2	124.8
foam height	@ 8h	30.0	39.0	36.5	34.5	45.0	41.0	40.0	33.5	35.0
	@ 16h	34.5	20.5	30.0	31.0	34.5	32.5	23.5	26.5	29.5
compression	@ 16h	0.722	0.682	0.642	0.444	0.755	0.626	0.744	0.852	0.641
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.47	6.53	6.52	5.99	6.50	6.49	6.47	6.52
	@24h	5.57	5.65	5.48	5.63	5.16	5.79	5.59	5.65	5.52
	@ 48 h	5.57	5.56	5.50	5.51	5.03	5.66	5.56	5.58	5.52
acidity relative to controls	@24h	78	69	99	66	56	49	107	70	85
	@ 48 h	77	74	93	91	91	70	99	72	87
lactic acid [ $\mu$ M]	@ 48 h	12.5	<0.5	<0.5	27.2	1.4	8.6	7.4	7.8	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	95.4	95.2	91.0	89.7	91.5	94.4	104.7	96.4	103.2
	40	82.3	95.9	76.6	49.0	79.8	85.2	112.9	104.8	111.3
cumulative gas [ml, 24 h]	10	101.7	100.5	87.6	87.7	82.7	92.1	97.6	99.8	103.4
	40	79.0	88.9	66.5	50.9	57.7	75.3	110.0	99.1	101.8
fermentation efficiency	10	93.8	94.7	103.9	102.2	110.6	102.5	107.2	96.6	99.8
	40	104.3	107.9	115.1	96.4	138.4	113.1	102.6	105.7	109.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	100	100	98	99	100	101	101	<b>103</b>
	Gas 10	98	102	101	89	97	100	107	103	103
	Fermn effic 10	102	97	98	111	103	100	94	98	99
	SCFA 10	99	121	97	108	104	101	106	101	119
	Microbial biomass	74	253	107	95	298	119	97	96	187
	C3/C2 at 10	97	102	102	107	95	103	98	94	101
<b>Leon data</b>										
	NDF (%)	51.1	33.1		29.4	22.6	25.7	18.1	20.0	18.5
<b>Methane formation</b>										
	Methane formed	83	89	106	93	103	105	116	91	112
<b>General effects</b>										
	Digestibility 10	101	99	97	106	99	94	100	102	104
	App. digestibility10	98	91	95	107	86	83	107	97	100
	Gas 10	88	94	97	107	100	95	105	100	110
	Fermn effic 10	127	106	99	101	100	100	96	104	94
	Microbial biomass 10	100	107	93	110	101	98	95	118	97
	C3/C2	93	92	95	95	121	107	107	90	103
	TVFA	108	89	97	112	96	96	106	75	113
<b>Rowett data</b>										
	Proteolysis	113.2	131.7	81.8	72.6	96.5	81.6	87.8	97.7	133.0
	Protozoa	98	90	93	83	97	86	100	87	90

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Peucedanum graveolens	Phacelia tanacetifolia	Phaseolus vulgaris	Philadelphus virginialis	Physalis peruviana	Phytolacca americana	Picea abies	Pimenta officinalis	Pimpinella anisum
	<b>Domestic Ref</b>	UR121	H114	UR106	E147	H093	H106	H077	UR021	UR132
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.50	3.83	3.67	3.33	3.33	3.83	4.67	3.00	3.00
cum. gas [ml]		131.0	141.7	138.0	122.9	126.4	121.9	120.5	121.6	120.4
foam height	@ 8h	34.0	29.5	31.5	42.5	38.0	32.5	37.0	33.0	34.0
	@ 16h	26.0	31.0	27.5	36.0	31.5	39.0	37.5	34.5	32.5
compression	@ 16h	0.519	0.857	0.038	0.546	0.742	0.775	0.489	0.577	0.631
<b>ACIDOSIS</b>										
pH	@1h	6.50	6.51	6.48	6.53	6.52	6.52	6.53	6.51	6.49
	@24h	5.51	5.58	5.61	5.73	5.55	5.63	5.58	5.49	5.60
	@ 48 h	5.51	5.57	5.55	5.64	5.55	5.60	5.58	5.50	5.56
acidity relative to controls	@24h	85	76	78	75	82	67	76	91	80
	@ 48 h	89	77	77	82	82	71	76	91	75
lactic acid [ $\mu$ M]	@ 48 h	6.0	20.9	11.5	7.4	8.1	10.9	31.6	1.5	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	100.7	101.6	102.6	101.1	101.9	98.7	93.9	91.9	87.5
	40	104.0	107.8	113.4	110.4	103.3	99.2	73.3	62.8	65.1
cumulative gas [ml, 24 h]	10	96.9	103.1	101.4	89.3	106.8	96.9	95.3	90.9	89.5
	40	96.0	102.1	103.7	83.9	89.5	87.4	71.3	61.1	70.8
fermentation efficiency	10	103.9	98.6	101.1	113.2	95.4	101.9	98.5	101.0	97.7
	40	108.3	105.5	109.3	131.6	115.4	113.5	102.8	102.8	92.0
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	100	101	101	100	100	97	97	97
	Gas 10	103	103	108	107	100	98	94	94	95
	Fermn effic 10	99	97	93	95	100	102	104	104	101
	SCFA 10	118	108	152	107	106	111	97	112	109
	Microbial biomass	134	116	192	88	139	159	109	89	80
	C3/C2 at 10	102	98	102	93	99	97	95	96	97
<b>Leon data</b>										
	NDF (%)	18.5	28.7	21.4	17.4	27.1	30.4	52.3	57.3	58.1
<b>Methane formation</b>										
	Methane formed	88	103	102	118	99	97	87	91	85
<b>General effects</b>										
	Digestibility 10	103	103	106	105	104	103	98	99	95
	App. digestibility10	98	102	104	110	111	110	94	90	78
	Gas 10	98	103	110	104	96	102	97	95	95
	Fermn effic 10	105	101	97	108	108	101	102	106	101
	Microbial biomass 10	110	106	102	117	113	106	100	106	97
	C3/C2	95	98	100	95	97	107	98	103	85
	TVFA	97	100	115	110	103	96	99	99	96
<b>Rowett data</b>										
	Proteolysis	101.3	112.6	110.3	103.0	94.5	106.7	105.6	117.3	103.8
	Protozoa	90	107	89	64	90	10	103	122	93

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Pimpinella major	Pinus sylvestris	Pinus tabulaeformis carr	Piper nigrum	Plantago coronopus	Plantago lanceolata	Plantago media	Platanus X hybrida	Podophyllum hexandrum
	<b>Domestic Ref</b>	H074	E136	A035	UR108	E103	R057	E069	H101	R059
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.67	3.33	3.17	3.00	4.33	3.83	3.50	3.50	3.50
cum. gas [ml]	@ 24h	131.1	120.2	116.6	143.4	126.8	128.5	133.9	123.6	128.9
foam height	@ 8h	40.0	37.5	47.5	33.5	34.5	55.0	28.0	29.5	36.5
	@ 16h	32.5	33.0	43.5	26.5	35.5	30.0	36.0	33.0	19.5
compression	@ 16h	0.793	0.778	0.307	0.409	0.654	0.500	0.712	0.879	0.600
<b>ACIDOSIS</b>										
pH	@1h	6.50	6.51	6.53	6.48	6.51	6.48	6.48	6.66	6.48
	@24h	5.53	5.70	5.74	5.56	5.68	5.63	5.60	5.90	5.64
	@ 48 h	5.54	5.69	5.75	5.47	5.74	5.63	5.59	5.96	5.66
acidity relative to controls	@24h	99	80	72	89	64	81	83	61	79
	@ 48 h	95	71	60	95	52	75	83	70	70
lactic acid [ $\mu$ M]	@ 48 h	4.7	1.1	<0.5	16.0	0.6	8.1	<0.5	14.9	6.8
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	94.5	92.6	89.6	93.6	99.1	98.2	104.2	88.8	99.6
	40	96.8	73.1	60.9	90.5	89.0	106.8	100.6	59.2	103.0
cumulative gas [ml, 24 h]	10	92.7	83.7	86.8	98.6	91.2	92.3	97.9	84.6	101.7
	40	93.9	64.6	67.6	90.5	79.7	93.1	89.7	58.5	92.5
fermentation efficiency	10	101.9	110.6	103.2	94.9	108.7	106.3	106.4	105.0	97.9
	40	103.1	113.2	90.1	100.0	111.6	114.7	112.1	101.3	111.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	97	95	100	99	101	101	96	101
	Gas 10	104	98	94	104	104	104	106	94	103
	Fermn effic 10	97	99	100	96	95	97	95	102	98
	SCFA 10	102	101	92	156	101	110	104	94	111
	Microbial biomass	127	71	122	144	127	61	129	87	63
	C3/C2 at 10	95	96	96	98	96	101	93	101	98
<b>Leon data</b>										
	NDF (%)	38.3	50.2	60.2	38.8	45.5	17.3	23.4	45.2	16.2
<b>Methane formation</b>										
	Methane formed	94	90	101	99	97	88	115	94	84
<b>General effects</b>										
	Digestibility 10	104	107	92	100	99	96	100	99	103
	App. digestibility10	110	122	89	92	94	86	95	98	100
	Gas 10	94	99	93	97	100	100	101	96	103
	Fermn effic 10	114	114	99	103	98	95	100	102	101
	Microbial biomass 10	101	125	89	103	90	90	98	99	104
	C3/C2	98	104	116	108	100	100	107	108	103
	TVFA	110	111	99	100	101	94	94	95	104
<b>Rowett data</b>										
	Proteolysis	91.5	108.6	72.7	105.6	92.8	88.3	93.9	83.6	94.5
	Protozoa	99	91	97	83	111	61	95	84	82

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Polygala vulgaris	Polygonatum x hybridum	Polygonum bistorta	Polygonum dumentorum	Polygonum japonicum	Polygonus aviculture	Polyporus fomentarius	polypropyleneglycol	Populus nigra
	<b>Domestic Ref</b>	R108	R060	H040	E106	R058	UR066	UR067	C001	E122
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.33	3.17	3.50	4.17	3.17	3.83	3.50	3.50	4.50
cum. gas [ml]	@ 24h	133.3	125.9	121.6	125.1	116.4	127.0	116.0	117.7	129.6
foam height	@ 8h	28.5	30.5	36.0	38.5	40.0	32.5	26.5	36.5	37.5
	@ 16h	30.0	30.0	36.0	32.5	23.0	26.5	35.0	30.5	29.5
compression	@ 16h	0.375	0.723	0.745	0.654	0.383	0.733	0.771	0.663	0.780
<b>ACIDOSIS</b>										
pH	@1h	6.50	6.49	6.60	6.46	6.47	6.50	6.49	6.67	6.48
	@24h	5.56	5.62	5.57	5.58	5.67	5.55	5.85	5.61	5.65
	@ 48 h	5.55	5.64	5.59	5.59	5.64	5.55	5.60	5.67	5.68
acidity relative to controls	@24h	80	84	86	82	73	77	39	134	69
	@ 48 h	81	75	90	75	73	79	68	155	59
lactic acid [ $\mu$ M]	@ 48 h	<0.5	5.4	9.2	<0.5	5.4	0.9	0.6	11.5	<0.5
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	101.0	99.0	95.1	101.0	90.0	95.8	80.9	97.5	99.1
	40	100.3	95.4	92.5	101.2	75.2	96.2	38.6	99.6	87.8
cumulative gas [ml, 24 h]	10	104.6	97.5	93.6	93.1	92.8	95.8	89.1	98.8	89.7
	40	95.3	90.1	78.7	83.8	67.9	89.2	41.8	101.9	82.6
fermentation efficiency	10	96.5	101.6	101.7	108.5	97.0	100.1	90.7	98.7	110.5
	40	105.3	105.9	117.4	120.7	110.8	107.8	92.2	97.7	106.3
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	99	100	102	103	98	100	99	101	100
	Gas 10	101	101	99	104	97	99	93	102	102
	Fermn effic 10	98	98	103	98	101	101	107	98	98
	SCFA 10	98	107	97	104	104	104	101	102	108
	Microbial biomass	96	64	71	112	89	117	99	82	133
	C3/C2 at 10	103	101	94	95	99	92	109	117	93
<b>Leon data</b>										
	NDF (%)	29.2	24.2	32.3	15.7	39.4	36.0	55.3		26.0
<b>Methane formation</b>										
	Methane formed	106	84	121	98	83	100	91	118	105
<b>General effects</b>										
	Digestibility 10	101	101	100	103	100	101	93	95	102
	App. digestibility10	88	103	99	106	89	94	81	95	104
	Gas 10	109	99	110	104	101	106	94	103	101
	Fermn effic 10	93	101	89	97	98	96	100	94	108
	Microbial biomass 10	93	100	88	91	95	98	89	89	115
	C3/C2	97	106	94	95	95	101	129	154	94
	TVFA	112	101	100	106	101	100	108	99	110
<b>Rowett data</b>										
	Proteolysis	137.2	103.7	90.3	77.1	82.7	93.5	137.8	104.1	93.3
	Protozoa	23	89	102	108	100	84	40	95	76

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Populus tremula	Poria colos	Potentilla anserina	Potentilla aurea TORN.	Potentilla palustris	Potentilla reptans	Primula florindae	Primula pulverentula	propenyl-allyl-disulfite=dia
	<b>Domestic Ref</b>	R061	A036	H068	H041	R100	E151	R093	R113	C042
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.83	3.67	3.33	3.50	2.67	3.83	3.67	3.50	2.83
cum. gas [ml]	@ 24h	125.8	142.2	115.4	130.1	122.3	118.5	123.5	130.8	88.8
foam height	@ 8h	36.5	40.0	32.0	39.5	33.5	42.5	35.5	35.0	32.0
	@ 16h	28.0	37.5	39.0	24.5	28.0	34.0	37.5	29.5	23.0
compression	@ 16h	0.466	0.479	0.698	0.387	0.751	0.701	0.573	0.378	0.657
<b>ACIDOSIS</b>										
pH	@1h	6.47	6.55	6.49	6.60	6.45	6.49	6.50	6.53	6.53
	@24h	5.64	5.72	5.60	5.61	5.61	5.78	5.64	5.62	5.63
	@ 48 h	5.64	5.66	5.57	5.67	5.51	5.65	5.61	5.58	5.74
acidity relative to controls	@24h	78	77	82	78	76	64	65	69	66
	@ 48 h	73	78	89	73	84	78	69	75	49
lactic acid [ $\mu$ M]	@ 48 h	7.4	<0.5	<0.5	6.4	20.9	11.1	21.3	19.8	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	96.3	98.5	90.3	101.6	84.9	97.9	105.5	104.5	100.6
	40	96.6	85.3	70.8	96.8	74.7	88.7	102.7	98.0	81.5
cumulative gas [ml, 24 h]	10	92.9	101.2	90.4	93.9	85.6	90.1	104.4	99.8	74.4
	40	84.1	97.1	76.5	84.4	73.7	73.9	87.6	92.3	55.7
fermentation efficiency	10	103.7	97.3	99.8	108.2	99.1	108.6	101.0	104.7	135.1
	40	115.0	87.9	92.5	114.7	101.4	120.1	117.2	106.2	146.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	99	102	103	97	98	102	101	100
	Gas 10	100	102	99	97	86	94	101	100	85
	Fermn effic 10	100	97	103	106	114	104	101	101	118
	SCFA 10	104	94	104	98	99	99	110	108	92
	Microbial biomass	57	117	95	86	88	124	99	84	55
	C3/C2 at 10	99	98	98	98	108	103	98	96	138
<b>Leon data</b>										
	NDF (%)	28.3	95.6	30.7	29.6	24.1	36.4	17.8	23.4	
<b>Methane formation</b>										
	Methane formed	74 - 89	107	96	116	87	100	90	104	9
<b>General effects</b>										
	Digestibility 10	98	96	104	101	99	102	106	104	89
	App. digestibility10	97 - 105	96	108	99	90	112	100	99	83
	Gas 10	96	97	102	107	93	96	105	108	77
	Fermn effic 10	104	99	105	93	106	113	101	97	118
	Microbial biomass 10	102	92	112	95	107	121	108	100	104
	C3/C2	102	106	100	97	98	96	103	94	117
	TVFA	97	101	103	100	92	103	103	116	82
<b>Rowett data</b>										
	Proteolysis	87.3	133.5	60.6	70.3	98.4	82.7	120.8	110.6	82.6
	Protozoa	84	96	91	98	96	100	43	102	101

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Prunella vulgaris	Prunus armeniaca	Prunus avium	Prunus persica	Prunus spinosa	Pteridium aquilinum	Pterocary fraxinifolia	Pterospartum tridentatum	pulegone
	<b>Domestic Ref</b>	R062	UR109	R063	UR112	UR115	R064	H083	E004	C043
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.00	4.00	5.00	3.83	2.33	3.83	3.50	2.67	3.17
cum. gas [ml]		123.5	123.5	128.0	119.5	125.8	117.4	127.6	119.1	115.9
foam height	@ 8h	36.0	31.5	38.0	35.5	29.5	43.5	40.5	38.0	29.0
	@ 16h	35.5	26.5	25.5	23.0	28.5	25.0	35.0	28.5	34.5
compression	@ 16h	0.962	0.846	0.444	0.885	0.927	0.469	0.703	0.691	0.595
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.51	6.48	6.50	6.47	6.50	6.66	6.50	6.53
	@24h	5.62	5.63	5.63	5.70	5.56	5.71	5.85	5.65	5.47
	@ 48 h	5.59	5.63	5.64	5.64	5.52	5.68	5.94	5.67	5.51
acidity relative to controls	@24h	69	74	82	62	88	66	70	72	101
	@ 48 h	73	64	74	61	83	66	75	67	89
lactic acid [ $\mu$ M]	@ 48 h	22.8	12.2	5.4	5.1	6.4	4.7	16.5	8.7	5.1
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	104.9	89.5	98.8	87.5	95.2	86.3	97.7	97.5	101.1
	40	105.6	53.5	98.4	61.2	86.5	74.7	87.9	83.3	95.4
cumulative gas [ml, 24 h]	10	98.0	96.0	98.3	91.5	95.6	92.3	88.5	86.8	94.4
	40	90.8	62.7	89.3	60.2	78.6	68.1	75.7	82.6	81.2
fermentation efficiency	10	107.0	93.2	100.5	95.6	99.6	93.6	110.4	112.3	107.1
	40	116.2	85.4	110.2	101.8	110.0	109.8	116.1	100.9	117.5
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	95	100	93	97	98	99	97	99
	Gas 10	100	97	100	95	99	95	97	98	97
	Fermn effic 10	101	98	100	97	97	103	102	100	102
	SCFA 10	108	127	108	111	115	103	97	105	100
	Microbial biomass	77	134	103	139	143	81	95	119	64
	C3/C2 at 10	99	99	100	101	108	100	98	96	104
<b>Leon data</b>										
	NDF (%)	24.3	77.6	26.7	89.5	50.6	44.9	35.2	54.5	
<b>Methane formation</b>										
	Methane formed	93	89	79 - 85	90	82	81	98	96	101
<b>General effects</b>										
	Digestibility 10	105	92	101	92	95	96	102	97	99
	App. digestibility10	94	86	90 - 106	83	84	79	101	88	104
	Gas 10	99	91	112	87	78	102	101	99	98
	Fermn effic 10	106	102	90	106	123	94	102	99	101
	Microbial biomass 10	113	96	89	99	110	88	105	103	98
	C3/C2	88	107	100	95	109	104	100	113	93
	TVFA	102	96	107	86	89	101	105	88	101
<b>Rowett data</b>										
	Proteolysis	86.9	87.6	119.7	156.1	76.6	106.7	99.8	80.5	76.3
	Protozoa	83	101	83	102	79	81	80	89	96

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Pulmonaria officinalis	Punica granatum	Quercus ilex	Quercus pedunculata	Ranunculus acris	Ranunculus bulbosus	Ranunculus ficaria	Raphanus raphanistrum	Raphanus Sativus
	<b>Domestic Ref</b>	R095	UR137	E164	R065	UR087	E035	R103	UR076	A043
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.67	3.33	3.00	3.17	3.00	4.00	2.67	3.17	3.00
cum. gas [ml]	@24h	129.6	132.1	112.4	115.4	134.4	131.8	145.9	120.7	117.1
foam height	@ 8h	28.5	30.0	37.5	33.5	33.5	31.0	31.0	34.5	35.0
	@ 16h	31.5	33.0	31.5	19.0	31.5	31.0	24.5	32.0	36.5
compression	@ 16h	0.564	0.938	0.573	0.547	0.842	0.546	0.416	0.618	0.423
<b>ACIDOSIS</b>										
pH	@1h	6.53	6.45	6.51	6.47	6.45	6.49	6.46	5.96	6.54
	@24h	5.81	5.53	5.67	5.57	5.58	5.59	5.58	5.08	5.57
	@ 48 h	5.63	5.47	5.61	5.59	5.50	5.60	5.51	5.00	5.58
acidity relative to controls	@24h	41	96	87	95	84	84	84	68	74
	@ 48 h	67	94	89	83	86	82	84	98	74
lactic acid [ $\mu$ M]	@ 48 h	25.7	9.0	10.2	4.7	0.6	4.6	7.2	<0.5	5.4
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	99.9	96.7	90.6	90.6	98.1	105.0	99.5	99.2	95.6
	40	108.7	97.0	66.4	71.1	99.9	102.0	102.0	98.4	78.1
cumulative gas [ml, 24 h]	10	98.8	89.1	83.4	88.9	100.7	95.0	100.6	86.6	94.5
	40	87.2	80.3	61.3	66.1	104.9	96.6	96.1	85.0	66.6
fermentation efficiency	10	101.1	108.6	108.6	101.8	97.4	110.5	98.9	114.6	101.2
	40	124.7	120.9	108.4	107.5	95.3	105.6	106.1	115.7	117.3
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	100	99	96	99	100	101	100	95
	Gas 10	100	97	89	88	103	105	103	102	96
	Fermn effic 10	102	102	111	109	96	95	99	97	99
	SCFA 10	108	115	93	104	101	105	113	112	97
	Microbial biomass	95	148	76	100	138	143	91	168	116
	C3/C2 at 10	105	113	101	105	97	96	101	94	94
<b>Leon data</b>										
	NDF (%)	26.0	20.8	47.8	37.4	37.2	30.0	17.3	42.7	67.0
<b>Methane formation</b>										
	Methane formed	99	89	87	74 - 78	112	111	101	115	115
<b>General effects</b>										
	Digestibility 10	103	104	104	100	101	102	106	100	95
	App. digestibility10	92	101	115	88 - 114	95	106	110	96	98
	Gas 10	102	103	92	105	106	102	100	108	98
	Fermn effic 10	101	102	118	96	96	100	106	93	98
	Microbial biomass 10	105	107	128	94	98	104	111	96	93
	C3/C2	100	103	91	96	102	130	105	101	102
	TVFA	103	101	101	105	101	103	105	99	97
<b>Rowett data</b>										
	Proteolysis	110.1	129.0	82.7	109.1	107.8	88.1	113.3	98.3	92.4
	Protozoa	107	71	75	55	96	101	90	89	110



Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Reseda lutea	Reseda luteola	Reseda undata	Rheum nobile	Rhododendron ponticum	Rhus typhina	Ribes nigrum	Ricinus communis	Robinia pseudoacacia
	<b>Domestic Ref</b>	E066	H042	E119	R066	UR070	H044	UR024	UR071	H045
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.33	3.17	3.17	2.83	3.67	2.33	3.50	2.83	4.50
cum. gas [ml]	@ 24h	127.7	129.9	132.2	114.1	114.0	123.3	124.6	132.3	122.0
foam height	@ 8h	36.0	40.5	35.0	37.0	39.0	42.5	34.0	48.5	39.0
	@ 16h	32.5	24.5	28.5	22.0	32.0	32.0	33.0	31.0	34.5
compression	@ 16h	0.706	0.250	0.852	0.596	0.500	0.642	0.703	0.553	0.665
<b>ACIDOSIS</b>										
pH	@1h	6.48	6.60	6.48	6.49	5.94	6.62	6.47	5.97	6.63
	@24h	5.61	5.62	5.57	5.69	5.00	5.62	5.66	4.95	5.65
	@ 48 h	5.64	5.64	5.58	5.76	4.96	5.62	5.59	4.98	5.72
acidity relative to controls	@24h	80	75	85	69	83	75	67	95	71
	@ 48 h	72	79	78	53	107	84	69	104	66
lactic acid [ $\mu$ M]	@ 48 h	8.6	7.1	<0.5	4.1	<0.5	19.1	6.4	<0.5	8.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	102.1	98.9	99.1	97.2	94.1	91.2	88.6	104.4	94.9
	40	99.4	92.1	103.7	89.7	76.1	85.7	71.6	111.3	77.5
cumulative gas [ml, 24 h]	10	92.0	95.9	98.5	90.4	87.3	80.7	92.2	102.5	94.8
	40	89.8	81.0	85.3	63.5	71.9	81.4	68.2	90.1	79.3
fermentation efficiency	10	111.0	103.1	100.6	107.5	107.7	113.0	96.0	101.9	100.1
	40	110.7	113.7	121.6	141.3	105.8	105.3	105.0	123.5	97.8
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	103	100	99	99	101	100	101	102
	Gas 10	103	99	102	90	101	89	96	105	97
	Fermn effic 10	97	103	99	110	99	114	104	96	105
	SCFA 10	104	95	105	99	87	91	104	107	94
	Microbial biomass	121	125	94	96	128	84	121	144	72
	C3/C2 at 10	95	96	96	121	95	102	96	95	96
<b>Leon data</b>										
	NDF (%)	28.9	35.0	17.5	18.9	39.9	23.0	27.0	27.4	38.9
<b>Methane formation</b>										
	Methane formed	106	115	98	75 - 78	104	117	84	105	116
<b>General effects</b>										
	Digestibility 10	99	99	106	101	99	108	99	101	107
	App. digestibility10	94	97	119	89 - 106	96	118	91	97	116
	Gas 10	100	100	101	105	105	111	98	108	108
	Fermn effic 10	99	96	111	96	94	96	102	95	99
	Microbial biomass 10	97	93	120	94	95	103	103	99	108
	C3/C2	83	98	98	110	102	92	108	99	98
	TVFA	87	98	118	108	96	107	94	99	104
<b>Rowett data</b>										
	Proteolysis	93.2	92.1	89.9	97.2	91.6	69.2	139.3	124.0	82.5
	Protozoa	88	99	74	57	91	99	117	45	88

Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	Rosa canina	Rosa canina fr	Rosa gallica	Rosa rubiginosa	Rosmarinus officinalis	Rubia tinctoria	Rubus fruticosus	Rubus idaeus	Rubus ulmifolius
	Domestic Ref	E038	UR117	R067	R068	A045	H105	E116	UR133	E014
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	4.33	3.67	3.50	2.83	2.83	2.17	3.33	2.67	4.00
cum. gas [ml]		121.7	127.8	117.1	119.6	117.0	124.1	117.7	124.8	111.9
foam height	@ 8h	37.5	30.0	51.5	44.0	27.5	29.0	43.0	36.5	40.0
	@ 16h	31.5	31.0	22.0	28.5	32.5	32.0	28.0	23.0	37.0
compression	@ 16h	0.652	0.823	0.659	0.219	0.590	0.792	0.505	0.650	0.577
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.47	6.51	6.49	6.53	6.64	6.47	6.47	6.52
	@24h	5.64	5.63	5.70	5.69	5.50	5.72	5.68	5.62	5.66
	@ 48 h	5.62	5.57	5.64	5.58	5.51	5.84	5.64	5.54	5.61
acidity relative to controls	@24h	74	74	68	69	90	99	64	76	70
	@ 48 h	78	74	74	86	89	99	65	80	81
lactic acid [ $\mu$ M]	@ 48 h	13.2	4.5	4.7	3.0	2.7	4.0	2.9	1.3	17.4
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	98.6	95.5	91.4	91.8	94.2	97.8	89.7	89.6	92.9
	40	92.6	83.1	64.1	80.4	69.5	96.1	65.2	65.1	75.0
cumulative gas [ml, 24 h]	10	87.3	98.5	93.3	95.8	80.9	95.6	89.4	92.6	82.9
	40	75.5	76.4	66.4	71.4	60.5	89.3	71.8	77.6	69.1
fermentation efficiency	10	113.0	96.9	97.9	95.8	116.5	102.3	100.4	96.7	112.1
	40	122.6	108.7	96.5	112.7	114.8	107.6	90.7	83.9	108.5
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	97	97	97	98	96	99	98	100	97
	Gas 10	96	98	89	89	96	101	95	99	89
	Fermn effic 10	102	99	109	110	100	97	103	100	110
	SCFA 10	98	114	99	98	94	102	98	107	97
	Microbial biomass	130	109	82	75	134	90	89	119	109
	C3/C2 at 10	100	98	99	103	85	96	98	101	105
<b>Leon data</b>										
	NDF (%)	24.7	52.2	34.7	23.9	30.1	45.9	30.8	37.9	30.9
<b>Methane formation</b>										
	Methane formed	105	85	81	74	95	99	99	87	92
<b>General effects</b>										
	Digestibility 10	102	95	95	96	95	102	107	98	97
	App. digestibility10	85	102	68	71	95	109	114	83	89
	Gas 10	104	93	96	96	96	99	102	95	97
	Fermn effic 10	99	103	99	101	99	104	112	104	101
	Microbial biomass 10	107	100	91	95	97	101	125	103	112
	C3/C2	107	91	97	96	95	102	95	98	100
	TVFA	98	89	96	100	93	102	110	96	97
<b>Rowett data</b>										
	Proteolysis	69.4	158.7	95.2	92.1	96.6	87.2	110.2	95.5	83.3
	Protozoa	101	72	81	66	76	97	95	91	85

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Rumex acetosa	Rumex acetosella	Rumex crispus	Ruta graveolens	Salix caprea	Salix fragilis	Salix viminalis	Salvia apiana	Salvia officinalis
	<b>Domestic Ref</b>	E070	E128	E075	H047	R069	R070	UR099	H099	A046
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.17	4.50	3.33	2.83	2.67	3.33	3.17	3.67	3.50
cum. gas [ml]		123.6	119.6	125.8	120.2	124.6	114.0	117.1	119.1	121.0
foam height	@ 8h	36.0	34.5	40.0	38.5	29.0	28.5	32.0	40.0	37.5
	@ 16h	28.0	30.5	28.0	36.0	28.5	22.5	27.5	38.0	34.5
compression	@ 16h	0.388	0.606	0.791	0.647	0.489	0.338	0.576	0.644	0.668
<b>ACIDOSIS</b>										
pH	@1h	6.52	6.50	6.49	6.62	6.50	6.50	6.46	6.53	6.50
	@24h	5.64	5.65	5.59	5.60	5.68	5.72	5.60	5.69	5.58
	@ 48 h	5.65	5.67	5.58	5.62	5.75	5.69	5.55	5.64	5.55
acidity relative to controls	@24h	75	70	84	79	72	64	78	57	71
	@ 48 h	72	61	86	83	56	66	77	64	79
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	<0.5	10.6	<0.5	<0.5	3.8	18.4	4.0
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	96.5	98.8	95.3	95.6	96.7	89.1	91.5	96.9	92.7
	40	89.4	91.3	75.3	90.3	81.5	64.3	64.9	79.4	69.6
cumulative gas [ml, 24 h]	10	93.3	89.2	84.6	96.4	88.8	83.1	87.8	88.8	85.1
	40	82.7	82.1	72.6	81.2	76.4	59.8	76.7	66.3	60.0
fermentation efficiency	10	103.4	110.8	112.6	99.2	108.9	107.1	104.1	109.2	109.0
	40	108.1	111.3	103.8	111.3	106.7	107.5	84.6	119.7	115.9
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	99	100	100	102	99	97	98	96	95
	Gas 10	98	101	100	103	97	92	97	93	94
	Fermn effic 10	101	99	100	99	102	106	101	103	101
	SCFA 10	101	104	101	98	104	101	116	96	92
	Microbial biomass	149	124	168	92	85	90	171	92	106
	C3/C2 at 10	97	95	97	94	97	99	99	85	85
<b>Leon data</b>										
	NDF (%)	52.2	37.1	36.0	43.1	33.7	38.3	39.1	33.9	29.9
<b>Methane formation</b>										
	Methane formed	107	94	100	129	70 - 86	84	106	89	91
<b>General effects</b>										
	Digestibility 10	96	105	98	107	98	94	96	96	97
	App. digestibility10	93	115	90	114	78 - 102	78	87	94	89
	Gas 10	99	102	99	109	105	101	104	87	93
	Fermn effic 10	97	110	100	96	94	93	93	114	101
	Microbial biomass 10	89	124	93	102	92	88	89	99	94
	C3/C2	102	98	101	99	97	99	124	90	95
	TVFA	94	102	99	108	100	92	102	95	95
<b>Rowett data</b>										
	Proteolysis	73.6	65.2	36.6	84.3	97.0	87.0	89.7	91.5	88.9
	Protozoa	105	78	99	96	76	75	79	84	74

Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	Salvia pratensis	Salvia sclarea	Salvia verticillata	Sambucus ebulus	Sambucus nigra	Sambucus racemosa	Sanguisorba minor	Santolina chamaecyparissus	Saponaria officinalis
	Domestic Ref	H071	H049	E159	E120	H050	R073	E034	E011	H051
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	4.33	4.17	3.67	4.17	3.00	3.67	3.50	3.50	4.17
cum. gas [ml]		127.0	120.3	115.5	129.1	128.3	125.5	129.6	116.6	133.9
foam height	@ 8h	34.0	35.5	45.0	34.0	35.0	32.0	40.5	33.5	35.0
	@ 16h	31.0	33.0	30.0	37.5	34.5	28.0	33.0	34.0	24.5
compression	@ 16h	0.729	0.704	0.733	0.658	0.733	0.442	0.801	0.686	0.448
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.58	6.55	6.51	6.63	6.46	6.47	6.50	6.65
	@24h	5.58	5.61	5.71	5.59	5.65	5.64	5.59	5.60	5.61
	@ 48 h	5.69	5.73	5.67	5.65	5.70	5.61	5.54	5.69	5.74
acidity relative to controls	@24h	87	77	79	81	71	79	84	82	79
	@ 48 h	65	63	75	66	69	79	95	63	62
lactic acid [ $\mu$ M]	@ 48 h	0.7	4.3	1.6	2.9	6.4	<0.5	9.2	5.4	5.0
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	100.2	95.7	102.0	98.9	103.0	103.3	95.3	100.1	102.9
	40	97.8	89.9	92.0	104.2	107.0	85.4	79.9	88.1	94.0
cumulative gas [ml, 24 h]	10	96.5	88.8	87.4	95.0	93.5	100.8	89.2	88.5	92.1
	40	91.6	75.2	79.1	86.0	84.8	78.1	72.1	77.5	87.3
fermentation efficiency	10	103.8	107.8	116.8	104.1	110.2	102.5	106.8	113.1	111.7
	40	106.8	119.5	116.3	121.2	126.2	109.4	110.7	113.7	107.7
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	99	102	102	101	104	101	99	97	104
	Gas 10	102	102	104	105	104	103	96	101	104
	Fermn effic 10	97	101	98	96	100	98	103	97	100
	SCFA 10	101	103	101	106	103	111	100	103	102
	Microbial biomass	133	68	44	114	91	87	131	99	67
	C3/C2 at 10	98	91	96	94	95	100	104	94	96
<b>Leon data</b>										
	NDF (%)	38.8	37.4	46.2	20.7	18.0	19.8	46.0	53.9	34.1
<b>Methane formation</b>										
	Methane formed	102	124	108	106	117	92	100	90	92
<b>General effects</b>										
	Digestibility 10	105	105	105	104	105	99	102	97	102
	App. digestibility10	107	113	115	118	110	78	100	91	107
	Gas 10	102	109	104	103	106	99	98	100	100
	Fermn effic 10	103	96	107	108	98	100	103	97	103
	Microbial biomass 10	99	102	114	118	103	96	110	98	113
	C3/C2	99	99	96	99	97	104	114	104	103
	TVFA	116	103	113	106	105	98	98	98	99
<b>Rowett data</b>										
	Proteolysis	93.4	110.3	108.3	73.4	86.1	106.7	94.4	109.7	107.0
	Protozoa	99	76	117	64	96	87	84	89	50

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Scrophularia auriculata	Scutellaria lateriflora	Sedum acre	Sedum album	Senecio jacobea	Senecio vulgaris	Sequoiadendron giganteum	Sideritis hyssopifolia	Silvanum silaus (L.) SCH &
	<b>Domestic Ref</b>	UR079	A041	H052	E087	H053	UR073	UR139	E169	H054
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.67	2.50	3.50	4.00	4.17	3.67	3.33	2.50	3.00
cum. gas [ml]		130.0	111.7	129.9	125.2	132.7	123.8	131.2	124.0	125.7
foam height	@ 8h	39.5	47.5	33.0	42.0	40.0	47.5	36.0	40.0	30.0
	@ 16h	28.0	27.5	28.5	33.0	32.5	35.0	29.0	29.0	27.5
compression	@ 16h	0.833	0.860	0.744	0.030	0.696	0.400	0.879	0.760	0.712
<b>ACIDOSIS</b>										
pH	@1h	5.97	6.48	6.60	6.48	6.59	5.97	6.64	6.50	6.62
	@24h	5.06	5.56	5.56	5.69	5.64	5.05	5.79	5.70	5.64
	@ 48 h	5.00	5.54	5.66	5.73	5.65	4.99	5.91	5.63	5.66
acidity relative to controls	@24h	72	76	88	62	71	74	84	80	72
	@ 48 h	98	81	76	51	77	100	81	84	76
lactic acid [ $\mu$ M]	@ 48 h	<0.5	3.4	4.3	2.0	9.2	<0.5	4.5	6.4	2.1
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	101.3	91.7	98.8	99.7	99.5	99.5	95.5	99.5	97.9
	40	108.7	76.7	92.5	68.7	93.2	107.0	80.0	90.3	93.4
cumulative gas [ml, 24 h]	10	90.1	87.6	92.2	91.3	92.8	86.1	90.1	95.1	97.9
	40	82.4	66.8	93.1	75.6	84.8	91.0	68.7	83.1	82.8
fermentation efficiency	10	112.4	104.7	107.2	109.2	107.2	115.5	106.0	104.6	100.0
	40	132.0	114.9	99.3	90.8	109.9	117.5	116.5	108.6	112.7
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	102	104	101	100	101	99	103	99
	Gas 10	101	102	103	104	102	106	96	104	102
	Fermn effic 10	100	100	101	96	98	96	102	98	97
	SCFA 10	107	99	104	104	113	106	112	102	120
	Microbial biomass	172	139	86	164	105	154	74	74	136
	C3/C2 at 10	94	90	95	92	101	95	96	94	100
<b>Leon data</b>										
	NDF (%)	25.6	30.3	22.6	22.3	40.8	36.1	46.9	46.0	38.9
<b>Methane formation</b>										
	Methane formed	114	110	91	96	93	113	88	104	93
<b>General effects</b>										
	Digestibility 10	102	100	101	98	100	103	98	97	101
	App. digestibility10	99	106	100	92	98	97	91	102	100
	Gas 10	105	107	100	98	98	108	94	102	98
	Fermn effic 10	97	95	101	99	103	95	106	96	104
	Microbial biomass 10	100	97	111	92	110	100	105	93	113
	C3/C2	99	96	99	93	102	116	90	103	103
	TVFA	103	103	100	99	96	103	99	100	89
<b>Rowett data</b>										
	Proteolysis	110.2	102.1	95.8	104.0	82.2	118.3	108.5	95.3	117.5
	Protozoa	68	79	94	99	92	81	80	93	88

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Silene dioica	Silybum marianum	Solanum dulcamara	Solanum tuberosom	Solidago canadensis	Solidago virgaurea	Sonchus asper	Soporaeflanescens	Sorbus aucuparia
	<b>Domestic Ref</b>	R075	E102	R076	UR030	R077	H056	E154	A042	R078
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.50	3.00	3.83	2.50	3.00	3.17	2.67	3.33	3.83
cum. gas [ml]	@ 8h	114.8	126.1	122.6	124.2	118.9	122.6	117.5	134.1	122.7
foam height	@ 16h	27.5	35.0	30.5	44.0	30.5	38.0	40.0	32.5	34.5
	@ 16h	36.5	34.5	28.5	25.0	32.5	29.0	40.0	30.0	26.0
compression	@ 16h	0.466	0.590	0.606	0.877	0.538	0.310	0.549	0.361	0.472
<b>ACIDOSIS</b>										
pH	@1h	6.54	6.49	6.49	6.51	6.50	6.62	6.50	6.53	6.51
	@24h	5.68	5.70	5.69	5.57	5.66	5.62	5.74	5.47	5.68
	@ 48 h	5.66	5.76	5.66	5.57	5.68	5.60	5.68	5.47	5.63
acidity relative to controls	@24h	72	61	69	73	75	76	71	95	72
	@ 48 h	72	48	71	77	66	89	73	100	76
lactic acid [ $\mu$ M]	@ 48 h	<0.5	<0.5	<0.5	1.5	<0.5	10.6	<0.5	4.0	8.2
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	98.1	80.5	100.7	98.7	100.4	96.7	102.0	101.7	98.5
	40	102.1	98.2	92.2	102.9	108.2	91.9	107.0	102.1	93.1
cumulative gas [ml, 24 h]	10	95.6	95.2	102.2	93.0	97.8	95.7	85.2	93.5	92.6
	40	86.7	82.9	81.8	92.9	96.3	84.4	83.8	88.2	90.1
fermentation efficiency	10	102.6	84.5	98.5	106.2	102.6	101.0	119.7	108.7	106.3
	40	117.6	118.5	112.7	110.7	112.4	108.9	127.7	115.6	103.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	102	99	101	101	99	101	100	101
	Gas 10	100	104	101	101	102	102	103	107	99
	Fermn effic 10	100	98	98	100	99	96	97	94	101
	SCFA 10	106	101	104	109	109	119	106	102	104
	Microbial biomass	79	112	55	126	70	108	131	148	72
	C3/C2 at 10	101	99	100	96	95	98	97	98	100
<b>Leon data</b>										
	NDF (%)	49.1	30.1	36.4	20.8	19.4	42.8	32.4	31.8	26.1
<b>Methane formation</b>										
	Methane formed	108	98	104	92	107	93	103	122	80
<b>General effects</b>										
	Digestibility 10	99	100	102	102	101	101	107	101	97
	App. digestibility10	85	98	89	96	88	97	120	107	77
	Gas 10	105	98	105	97	103	97	100	107	93
	Fermn effic 10	95	102	97	106	99	103	113	95	104
	Microbial biomass 10	92	95	97	110	99	111	131	96	104
	C3/C2	106	99	103	100	98	99	102	102	103
	TVFA	101	106	105	95	101	90	103	103	80
<b>Rowett data</b>										
	Proteolysis	92.7	112.4	107.7	130.7	102.5	113.0	73.1	90.5	98.1
	Protozoa	48	98	70	90	86	47	100	106	87

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Stachys palustris	Stellaria holostea	Stellaria media	Succisa pratensis MOENC	Symphytum officinale	Symphytum tuberosum	Syringa vulgaris	Tanacetum balsamita	Tanacetum parthenium
	<b>Domestic Ref</b>	R079	E064	UR074	H057	H058	E046	R080	H059	UR006
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.00	3.50	3.67	3.17	3.50	3.67	3.67	3.83	3.33
cum. gas [ml]	@24h	128.7	128.9	124.3	132.5	129.8	129.1	129.2	128.9	122.0
foam height	@ 8h	35.0	40.5	32.0	34.0	42.0	37.0	38.0	43.0	40.0
	@ 16h	27.5	34.0	31.5	33.5	29.0	26.0	26.5	32.5	36.5
compression	@ 16h	0.378	0.501	0.438	0.612	0.544	0.346	0.359	0.881	0.719
<b>ACIDOSIS</b>										
pH	@1h	6.49	6.51	6.52	6.60	6.65	6.51	6.48	6.62	6.48
	@24h	5.65	5.64	5.61	5.62	6.21	5.61	5.58	5.59	5.53
	@ 48 h	5.62	5.61	5.58	5.62	5.77	5.65	5.62	5.63	5.53
acidity relative to controls	@24h	77	75	67	76	14	80	92	81	80
	@ 48 h	79	80	74	84	58	72	77	82	84
lactic acid [ $\mu$ M]	@ 48 h	7.5	3.3	2.6	7.8	2.8	10.5	<0.5	<0.5	0.7
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	101.3	99.3	100.1	96.9	93.3	103.7	101.6	98.3	99.6
	40	101.8	92.1	93.2	91.3	89.9	96.4	106.1	96.4	98.7
cumulative gas [ml, 24 h]	10	104.1	94.3	97.6	96.9	86.6	95.9	96.2	96.1	93.7
	40	91.1	84.2	90.7	86.1	80.1	79.3	100.9	83.7	82.6
fermentation efficiency	10	97.3	105.3	102.6	100.0	107.8	108.2	105.6	102.2	106.3
	40	111.8	109.5	102.7	106.0	112.2	121.6	105.2	115.2	119.4
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	98	100	103	104	100	100	102	100
	Gas 10	102	101	105	100	102	102	102	104	100
	Fermn effic 10	98	97	96	103	103	99	98	98	100
	SCFA 10	106	100	102	100	101	103	108	104	98
	Microbial biomass	68	106	157	167	106	117	86	103	81
	C3/C2 at 10	100	98	96	97	104	102	98	92	96
<b>Leon data</b>										
	NDF (%)	33.5	48.8	49.6	34.8	21.2	21.1	18.0	40.1	37.8
<b>Methane formation</b>										
	Methane formed	108	103	114	85	78	103	115	96	87
<b>General effects</b>										
	Digestibility 10	102	99	102	95	96	102	107	99	100
	App. digestibility10	92	94	95	85	78	105	106	105	95
	Gas 10	109	97	105	89	83	102	115	100	94
	Fermn effic 10	93	101	97	106	117	100	93	101	106
	Microbial biomass 10	95	98	99	107	115	105	93	103	105
	C3/C2	103	85	114	99	109	102	103	100	101
	TVFA	98	87	104	90	94	106	116	96	99
<b>Rowett data</b>										
	Proteolysis	95.2	99.0	100.3	86.1	105.1	80.1	81.8	94.5	96.1
	Protozoa	146	106	94	64	13	107	87	99	95



Comprehensive Summary  
**Alpha2 (%)**

	Botanical Name	Tanacetum vulgare	Taraxacum dens-leonis	Taraxacum officinale	Taxus baccata	terpinene-4-ol	terpinolene	terpinyl-acetat	Teucrium scorodonia	Thuja plicata
	Domestic Ref	H067	E067	R082	UR104	C044	C045	C046	R083	H084
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.67	3.67	2.50	2.83	3.00	3.50	4.17	3.50	3.50
cum. gas [ml]		120.7	138.2	135.2	120.8	121.1	120.0	128.6	125.0	112.2
foam height	@ 8h	38.5	37.0	38.0	33.5	28.5	35.5	31.5	34.5	31.5
	@ 16h	29.0	24.5	25.5	31.0	33.0	37.5	29.0	24.0	31.0
compression	@ 16h	0.483	0.167	0.692	0.403	0.586	0.497	0.636	0.778	0.634
<b>ACIDOSIS</b>										
pH	@1h	6.48	6.49	6.50	6.49	6.53	6.52	6.53	6.50	6.63
	@24h	5.57	5.58	5.68	5.47	5.51	5.46	5.50	5.62	5.80
	@ 48 h	5.59	5.59	5.67	5.46	5.53	5.48	5.55	5.63	5.88
acidity relative to controls	@24h	90	86	71	95	91	103	94	84	79
	@ 48 h	84	83	68	100	86	98	81	77	88
lactic acid [ $\mu$ M]	@ 48 h	2.0	<0.5	<0.5	<0.5	14.7	5.9	11.6	0.7	15.2
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	100.4	103.1	104.5	95.1		96.5	98.0	99.9	92.5
	40	96.0	109.6	106.0	94.3		72.6	80.9	99.4	78.0
cumulative gas [ml, 24 h]	10	91.3	97.7	105.8	88.8		85.4	91.4	98.6	89.6
	40	86.6	92.1	100.4	95.2		65.8	72.7	97.7	67.3
fermentation efficiency	10	109.9	105.4	98.8	107.2		112.9	107.2	101.3	103.2
	40	110.9	119.1	105.6	99.1		110.4	111.3	101.7	115.8
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	101	101	98	102	100	98	99	98
	Gas 10	102	105	99	99	97	98	94	101	96
	Fermn effic 10	101	96	103	97	105	103	104	98	102
	SCFA 10	108	105	109	118	100	98	95	106	95
	Microbial biomass	80	140	133	147	68	79	80	86	149
	C3/C2 at 10	95	97	99	95	100	102	97	100	98
<b>Leon data</b>										
	NDF (%)	39.3	19.7	21.0	33.6				37.2	43.8
<b>Methane formation</b>										
	Methane formed	102	108	112	110	105	103	98	112	97
<b>General effects</b>										
	Digestibility 10	104	99	104	102	98	97	94	103	102
	App. digestibility10	100	92	93	101	102	97	92	85	101
	Gas 10	104	98	110	108	98	96	94	112	99
	Fermn effic 10	100	100	93	95	100	100	100	92	104
	Microbial biomass 10	104	96	82	96	96	93	99	84	107
	C3/C2	100	86	102	108	97	91	83	102	97
	TVFA	105	93	123	109	101	99	77	122	100
<b>Rowett data</b>										
	Proteolysis	86.9	89.2	98.2	106.7	81.1	79.8	83.1	99.6	77.3
	Protozoa	81	113	65	105	104	89	88	87	73

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Thymelaea coridifolia	thymol	Thymus mastichina	Thymus scyphyllum citrod	Thymus vulgaris	Tilia cordata	Tilia europea	Tragopogon castellanus	Trichosanthes lirilowii max
	<b>Domestic Ref</b>	E018	C047	E017	H060	A047	H061	R084	E107	A048
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.50	3.83	3.83	3.00	3.67	3.17	3.17	4.50	3.33
cum. gas [ml]		126.1	102.7	124.8	124.3	115.8	126.0	126.6	129.8	123.2
foam height	@ 8h	41.5	33.5	32.5	35.0	37.5	30.5	39.5	43.5	37.5
	@ 16h	35.5	34.5	29.0	34.5	31.0	29.5	25.5	29.0	36.0
compression	@ 16h	0.456	0.659	0.748	0.746	0.769	0.761	0.059	0.706	0.619
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.53	6.48	6.61	6.50	6.59	6.49	6.46	6.49
	@24h	5.64	5.57	5.57	5.55	5.50	5.62	5.65	5.56	5.52
	@ 48 h	5.61	5.56	5.54	5.61	5.50	5.69	5.70	5.56	5.53
acidity relative to controls	@24h	75	78	88	89	89	76	76	87	84
	@ 48 h	80	79	94	85	92	70	63	82	83
lactic acid [ $\mu$ M]	@ 48 h	2.0	5.9	<0.5	<0.5	6.0	0.7	15.7	<0.5	3.4
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	94.7	95.4	101.7	98.3	99.9	98.5	102.8	100.4	102.2
	40	91.1	72.3	90.0	88.5	96.6	85.6	99.8	95.3	103.8
cumulative gas [ml, 24 h]	10	89.5	88.2	92.5	92.7	98.5	92.9	98.1	92.2	94.2
	40	84.3	54.4	74.9	83.2	79.1	80.7	88.5	94.0	86.3
fermentation efficiency	10	105.8	108.1	110.0	106.1	101.4	106.1	104.8	108.9	108.5
	40	108.0	132.7	120.2	106.4	122.2	106.1	112.8	101.4	120.2
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	98	96	99	101	100	102	100	100	100
	Gas 10	102	87	99	102	99	98	101	103	103
	Fermn effic 10	96	111	100	99	101	105	100	97	96
	SCFA 10	109	90	106	100	100	101	107	102	98
	Microbial biomass	130	79	101	66	137	68	89	120	237
	C3/C2 at 10	96	98	96	94	94	94	98	100	100
<b>Leon data</b>										
	NDF (%)	44.9		23.9	48.2	26.2	31.9	31.9	36.9	29.0
<b>Methane formation</b>										
	Methane formed	97	89	98	95	93	97	111	98	92
<b>General effects</b>										
	Digestibility 10	97	87	100	95	100	98	103	102	99
	App. digestibility10	100	81	100	96	97	93	86	100	97
	Gas 10	98	75	102	96	99	102	107	98	100
	Fermn effic 10	98	111	99	99	101	97	97	109	101
	Microbial biomass 10	99	92	113	95	100	96	87	108	101
	C3/C2	84	88	88	98	99	98	101	98	102
	TVFA	90	76	93	94	101	98	106	121	100
<b>Rowett data</b>										
	Proteolysis	99.5	154.9	75.2	105.3	89.6	93.1	97.1	127.5	102.6
	Protozoa	92	67	90	103	62	80	95	106	100

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Trifolium angustifolium	Trolius europaeus	Tropaeolum majus	Tuberaria guttata	Tulipa sp.	Tussilago farfara	Typha latifolia	Ulex eruopaeus	Ulmus minor
	<b>Domestic Ref</b>	E170	E057	H062	E010	UR027	H063	E114	UR130	E097
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	2.83	3.50	3.67	2.83	2.67	4.00	3.83	3.17	3.50
cum. gas [ml]	@24h	130.4	130.3	128.7	123.1	127.2	125.5	129.3	133.6	134.9
foam height	@ 8h	40.0	40.5	45.0	36.0	28.5	45.0	42.5	34.0	33.0
	@ 16h	36.5	34.0	36.0	26.0	27.0	33.0	27.5	31.5	33.5
compression	@ 16h	0.350	0.287	0.667	0.624	0.375	0.410	0.419	0.556	0.938
<b>ACIDOSIS</b>										
pH	@1h	6.55	6.47	6.60	6.48	6.46	6.60	6.47	6.50	6.50
	@24h	5.71	5.60	5.55	5.61	5.45	5.66	5.59	5.61	5.62
	@ 48 h	5.65	5.56	5.56	5.55	5.45	5.77	5.61	5.60	5.66
acidity relative to controls	@24h	79	82	91	79	100	68	80	77	76
	@ 48 h	80	89	98	92	103	56	72	68	63
lactic acid [ $\mu$ M]	@ 48 h	6.4	3.9	<0.5	13.4	0.7	<0.5	<0.5	<0.5	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	98.5	98.0	101.6	95.2	101.4	97.1	97.7	96.0	98.1
	40	80.7	95.9	104.1	73.2	108.9	93.4	94.1	81.6	97.2
cumulative gas [ml, 24 h]	10	86.2	100.6	95.3	84.1	99.4	96.2	89.3	102.8	90.1
	40	77.5	84.4	94.8	65.2	96.7	91.8	82.2	88.9	86.3
fermentation efficiency	10	114.2	97.4	106.6	113.2	102.1	101.0	109.4	93.4	108.9
	40	104.2	113.6	109.8	112.2	112.6	101.7	114.5	91.8	112.7
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	102	99	102	96	101	104	99	98	101
	Gas 10	105	103	105	89	105	102	97	101	101
	Fermn effic 10	97	96	96	109	96	102	101	97	100
	SCFA 10	103	103	122	113	107	99	99	122	101
	Microbial biomass	66	128	195	103	150	122	92	103	162
	C3/C2 at 10	96	97	107	102	100	93	98	98	96
<b>Leon data</b>										
	NDF (%)	60.3	42.6	23.4	52.6	19.6	24.2	52.8	64.4	22.6
<b>Methane formation</b>										
	Methane formed	102	106	96	95	98	92	102	96	93
<b>General effects</b>										
	Digestibility 10	94	97	99	98	102	98	107	99	100
	App. digestibility10	95	89	97	92	96	90	119	95	96
	Gas 10	98	97	100	102	103	97	106	100	102
	Fermn effic 10	97	99	100	97	100	102	106	100	99
	Microbial biomass 10	92	94	100	98	105	101	117	101	93
	C3/C2	101	91	104	116	110	97	95	92	96
	TVFA	95	88	100	99	95	99	111	101	107
<b>Rowett data</b>										
	Proteolysis	83.3	83.0	103.7	37.0	140.5	68.2	122.6	117.5	97.2
	Protozoa	92	85	81	74	89	95	101	62	104

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Umbiliucus rupestris	Urtica dioica	Vaccinium myrtillus	Vaccinium vitis-idaea	Valeriana officinalis	valeric-acid	Verbascum floccosum	Verbascum thapsus	Verbena officinalis
	<b>Domestic Ref</b>	E142	A049	R085	R086	R087	C048	E123	R088	H066
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.83	3.83	3.50	2.33	4.17	2.83	3.33	4.67	4.00
cum. gas [ml]		136.2	119.0	116.3	116.6	128.7	109.6	119.6	128.7	128.5
foam height	@ 8h	33.0	32.5	37.0	34.0	33.0	29.5	39.5	35.0	36.5
	@ 16h	30.0	32.5	31.0	34.5	25.0	34.0	40.0	23.5	32.0
compression	@ 16h	0.543	0.639	0.616	0.705	0.591	0.232	0.234	0.421	0.424
<b>ACIDOSIS</b>										
pH	@1h	6.51	6.52	6.52	6.47	6.46	6.52	6.47	6.48	6.59
	@24h	5.66	5.55	5.68	5.67	5.67	5.47	5.66	5.68	5.58
	@ 48 h	5.65	5.56	5.72	5.60	5.65	5.49	5.62	5.65	5.64
acidity relative to controls	@24h	88	77	72	73	72	100	68	71	83
	@ 48 h	78	79	60	82	71	95	69	72	79
lactic acid [ $\mu$ M]	@ 48 h	5.5	6.7	15.0	3.0	0.7	9.4	<0.5	9.0	0.7
<b>General fermentation</b>										
dmd [g g <sup>-1</sup> ]	10	98.0	98.6	99.3	94.9	95.8	103.1	96.1	100.2	99.0
	40	87.8	89.0	77.0	80.4	88.5	100.6	81.6	98.3	87.0
cumulative gas [ml, 24 h]	10	97.1	90.0	94.6	98.1	96.9	96.4	96.0	96.8	95.4
	40	84.6	77.7	74.7	70.8	86.2	95.1	85.2	96.9	76.7
fermentation efficiency	10	100.9	109.6	104.9	96.7	98.8	106.9	100.0	103.6	103.7
	40	103.9	114.5	103.1	113.6	102.7	105.8	95.7	101.5	113.5
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	100	101	98	99	100	100	100	101	101
	Gas 10	105	102	96	96	102	98	104	102	101
	Fermn effic 10	94	99	102	103	98	102	96	99	100
	SCFA 10	108	101	101	105	106	99	104	108	99
	Microbial biomass	103	135	105	104	89	75	96	90	70
	C3/C2 at 10	98	92	95	98	98	100	101	100	96
<b>Leon data</b>										
	NDF (%)	35.8	28.9	43.6	42.8	47.9		37.3	33.5	43.4
<b>Methane formation</b>										
	Methane formed	102	93	101	100	116	103	108	113	96
<b>General effects</b>										
	Digestibility 10	107	101	102	101	98	98	102	103	94
	App. digestibility10	118	95	92	95	80	99	101	92	91
	Gas 10	102	100	108	104	113	101	100	112	101
	Fermn effic 10	112	102	95	97	88	98	108	92	93
	Microbial biomass 10	126	103	88	97	86	95	109	93	88
	C3/C2	99	98	95	99	101	106	97	103	100
	TVFA	112	100	111	103	106	94	115	104	99
<b>Rowett data</b>										
	Proteolysis	138.6	83.0	85.7	88.8	93.5	82.5	121.7	95.4	116.7
	Protozoa	115	83	69	80	90	89	85	68	75

Comprehensive Summary  
**Alpha2 (%)**

	<b>Botanical Name</b>	Viburnum opulus	Vicia cracca	Vicia sativa	Vicia sepium	Vinca minor	Viola odorata	Viola riviana	Vitex agnus-castus	Vitis vinefera
	<b>Domestic Ref</b>	R089	E058	UR085	R090	R091	R099	E139	H087	UR119
<b>Reading data</b>										
<b>Bloat</b>										
viscosity	@24h	3.33	4.50	2.83	2.83	3.33	3.33	3.33	3.33	4.17
cum. gas [ml]		124.7	128.1	124.1	119.5	126.1	132.9	125.8	128.7	129.6
foam height	@ 8h	31.5	41.5	45.5	37.0	34.5	36.0	45.5	31.0	35.5
	@ 16h	26.5	35.0	34.5	35.5	26.0	27.0	22.0	31.0	28.5
compression	@ 16h	0.299	0.753	0.450	0.530	0.257	0.353	0.111	0.622	0.704
<b>ACIDOSIS</b>										
pH	@1h	6.49	6.49	5.97	6.49	6.49	6.51	6.53	6.22	6.46
	@24h	5.64	5.64	5.06	5.72	5.70	5.65	5.69	5.57	5.62
	@ 48 h	5.63	5.69	5.02	5.72	5.65	5.58	5.66	5.56	5.56
acidity relative to controls	@24h	80	74	72	63	68	62	82	69	74
	@ 48 h	75	63	93	60	71	74	77	69	74
lactic acid [ $\mu$ M]	@ 48 h	0.7	5.9	5.0	5.2	1.5	7.3	<0.5	23.0	<0.5
<b>General fermentation</b>										
dmd [ $g\ g^{-1}$ ]	10	99.3	102.4	100.2	101.4	102.1	98.8	99.2	99.4	92.2
	40	100.4	93.2	101.8	100.2	98.1	104.6	102.1	94.7	74.8
cumulative gas [ml, 24 h]	10	101.6	93.6	92.6	97.6	98.6	101.9	91.5	96.2	95.4
	40	89.6	80.1	90.9	85.0	91.1	92.5	90.7	90.7	78.6
fermentation efficiency	10	97.7	109.5	108.3	103.8	103.6	97.0	108.5	103.4	96.7
	40	112.1	116.3	112.0	117.9	107.6	113.1	112.6	104.4	95.2
<b>Hohenheim data</b>										
<b>Protein synthesis</b>										
	Protein formed									
<b>General effects</b>										
	Digestibility 10	101	99	99	99	100	100	99	100	99
	Gas 10	101	103	103	103	99	98	104	104	101
	Fermn effic 10	100	96	96	96	101	101	95	96	97
	SCFA 10	110	104	108	111	106	113	109	104	116
	Microbial biomass	111	115	126	104	97	117	111	110	145
	C3/C2 at 10	97	97	94	100	98	109	99	95	97
<b>Leon data</b>										
	NDF (%)	26.7	44.2	38.4	39.1	36.1	19.9	29.6	47.4	44.9
<b>Methane formation</b>										
	Methane formed	116	111	116	121	116	92	106	99	84
<b>General effects</b>										
	Digestibility 10	101	98	100	103	99	101	106	101	96
	App. digestibility10	82	95	92	93	83	100	114	103	88
	Gas 10	110	98	105	106	102	103	103	96	90
	Fermn effic 10	92	101	95	98	97	99	110	106	107
	Microbial biomass 10	94	97	96	106	102	111	124	110	103
	C3/C2	101	86	98	99	99	103	101	100	98
	TVFA	110	92	99	97	88	89	110	98	90
<b>Rowett data</b>										
	Proteolysis	115.5	117.0	144.1	150.8	116.3	104.5	120.9	95.5	108.5
	Protozoa	112	82	75	62	53	90	88	89	80

Comprehensive Summary  
Alpha2 (%)

	Botanical Name	zingerone	Zingiber officinale
	Domestic Ref	C050	A050
<b>Reading data</b>			
<b>Bloat</b>			
viscosity	@24h	3.17	3.17
cum. gas [ml]	@ 8h	127.7	132.2
foam height	@ 16h	28.0	47.5
	@ 16h	25.0	36.0
compression	@ 16h	0.767	0.175
<b>ACIDOSIS</b>			
pH	@1h	6.52	6.50
	@24h	5.44	5.44
	@ 48 h	5.49	5.43
acidity relative to controls	@24h	109	103
	@ 48 h	95	109
lactic acid [ $\mu$ M]	@ 48 h	19.1	4.5
<b>General fermentation</b>			
dmd [ $g\ g^{-1}$ ]	10		97.9
	40		90.0
cumulative gas [ml, 24 h]	10		96.0
	40		92.3
fermentation efficiency	10		102.0
	40		97.5
<b>Hohenheim data</b>			
<b>Protein synthesis</b>			
	Protein formed		
<b>General effects</b>			
	Digestibility 10	100	100
	Gas 10	99	108
	Fermn effic 10	102	93
	SCFA 10	99	104
	Microbial biomass	96	188
	C3/C2 at 10	100	95
<b>Leon data</b>			
	NDF (%)		27.8
<b>Methane formation</b>			
	Methane formed	109	97
<b>General effects</b>			
	Digestibility 10	98	103
	App. digestibility10	103	106
	Gas 10	97	101
	Fermn effic 10	102	98
	Microbial biomass 10	106	97
	C3/C2	101	97
	TVFA	84	99
<b>Rowett data</b>			
	Proteolysis	118.4	77.9
	Protozoa	88	89