TECHNICAL DATA SHEET

RUMIPLUS_RUMIPLUS BIO

Feed material

Presentation : Avg. 420 kg bales with plastic straps, approx. 1,4 m x 1,2 m x 0,75 m.
Origin : France
HS Code : 12 14 90 90
Features :
RUMIPLUS : Dehydrated chopped alfalfa and pellets in bales - VLOG geprüft.

RUMIPLUS BIO : Dehydrated chopped alfalfa and pellets in bales from organic farming, certified by FR-BIO-01 - VLOG geprüft.

Information provided for guidance only, in compliance with EU Regulation 767/2009 (Annex IV on tolerances). Contractual guarantees are specified in the approved agreements.

General Composition

Parameter	As fed	on DM	Unit	Other	Other Unit
Moisture	10.0	0.0	%	-	-
Crude protein	15.3	17.0	%	-	-
Crude fat	2.5	2.8	%	-	-
Crude Ash	11.1	12.3	%	-	-
Crude Fiber	27.0	30.0	%	-	-
NDF	37.8	42.0	%	-	-
Starch	0.0	0.0	%	-	-
ADF	27.1	30.1	%	-	-
ADL	7.0	7.8	%	-	-
Lignin	7.0	7.8	%	-	-
Insoluble Ash	1.4	1.6	%	-	-
Soluble Cell walls	8.0	8.9	%	-	-
Insoluble Cell walls	46.0	51.1	%	-	-
Sugars	3.8	4.2	%	-	-
Xanthophylls	120	133	ppm	-	-
Lutein+Zeaxanthin	75	83	ppm	-	-
Carotene	40	44	ppm	-	-
Vitamin E	40	44	ppm	-	-

Minerals

Parameter	As fed	on DM	Unit	Other	Other Unit
Calcium	22.2	24.7	g/kg	-	-
Phosphorus	2.3	2.6	g/kg	-	-
Magnesium	1.5	1.7	g/kg	-	-
Potassium	24.9	27.7	g/kg	-	-
Sodium	0.2	0.2	g/kg	-	-
Chlorine	5.0	5.6	g/kg	-	-
Sulphur	2.6	2.9	g/kg	-	-
Manganese	45.0	50.0	ppm	-	-
Zinc	20.0	22.2	ppm	-	-
Copper	5.0	5.6	ppm	-	-
Iron	425.0	472.2	ppm	-	-
Selenium	0.3	0.3	ppm	-	-
Cobalt	0.3	0.3	ppm	-	-
Iodine	0.4	0.4	ppm	-	-
Nickel	1.4	1.6	ppm	-	-
Fluorine	9.0	10.0	ppm	-	-
Molybdenum	0.6	0.7	ppm	-	-

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Amino acids

Parameter	As fed	on DM	Unit	Other	Other Unit
Lysine	6.9	7.7	g/kg	-	-
Methionine	1.8	2.0	g/kg	-	-
Cystine	1.8	2.0	g/kg	-	-
Threonine	5.9	6.6	g/kg	-	-
Tryptophane	2.4	2.7	g/kg	-	-
Isoleucine	6.3	7.0	g/kg	-	-
Valine	8.6	9.6	g/kg	-	-
Leucine	10.7	11.9	g/kg	-	-
Histidine	2.8	3.1	g/kg	-	-
Phenylalanine	6.9	7.7	g/kg	-	-
Tyrosine	3.9	4.3	g/kg	-	-
Arginine	5.7	6.3	g/kg	-	-
Alanine	7.6	8.4	g/kg	-	-
Aspartic acid	18.6	20.7	g/kg	-	-
Glutamic acid	12.7	14.1	g/kg	-	-
Glycine	6.7	7.4	g/kg	-	-
Serine	6.3	7.0	g/kg	-	-
Proline	6.9	7.7	g/kg	-	-

Fatty Acids

Parameter	As fed	on DM	Unit	Other	Other Unit
C12:0 lauric acid	0.3	0.3	g/kg	-	-
C16:0 palmitic acid	3.1	3.4	g/kg	-	-
C18:0 stearic acid	0.5	0.6	g/kg	-	-
C18:1 oleic acid	0.5	0.6	g/kg	-	-
C18:2 linolenic acid	2.8	3.1	g/kg	-	-
C18:3 linolenic acid	5.5	6.1	g/kg	-	-

Energy Nutritional Values

Parameter	As fed	on DM	Unit	Other	Other Unit
VEM/Net Energy for milk **CVB 2018**	620	689	/kg	-	-
VEVI/Net Energy for gain **CVB 2018**	595	661	/kg	-	-
UFL/Net Energy for milk **INRA 2018**	0.66	0.73	/kg	-	-
UFV/Net energy for gain **INRA 2018**	0.59	0.66	/kg	-	-
dMO/ Digestibility of organic matter **INRA 2007**	-	-	-	60	%MO
NEl3X/Net Energy for milk **NRC 2001**	4.1	4.56	MJ/kg	-	-
NEg3X/Net Energy for gain **NRC 2001**	2.3	2.56	MJ/kg	-	-
NEm3X/Net Energy for maintenance **NRC 2001**	4.4	4.89	MJ/kg	-	-
TDN/Total digestible nutrients **NRC 2001**	49	54	%	-	-

Protein Nutritional Values

Parameter	As fed	on DM	Unit	Other	Other Unit
DVE/Intestinal digestible protein **CVB 2018**	70	78	g/kg	-	-
OEB/Rumen degradable protein balance **CVB 2018**	20	22	g/kg	-	-
BPR/Rumen degradable protein balance **INRA 2018**	14	16	g/kg	-	-
PDI/Intestinal digestible protein from feed **INRA 2018**	88	98	g/kg	-	-
PDIA/Intestinal digestible protein from feed **INRA 2018**	46	51	g/kg	-	-
Threonine digestible INRA 2018	-	-	-	5.2	% PDI
Isoleucine digestible INRA 2018	-	-	-	5.2	% PDI
Valine digestible INRA 2018	-	-	-	6.1	% PDI
Leucine digestible INRA 2018	-	-	-	8.8	% PDI
Phenylalanine digestible INRA 2018	-	-	-	5.2	% PDI
Arginine digestible INRA 2018	-	-	-	4.7	% PDI
Histidine digestible INRA 2018	-	-	-	1.9	% PDI
Methionine digestible INRA 2018	-	-	-	1.7	% PDI
Lysine digestible INRA 2018	-	-	-	6.8	% PDI
RUP/Rumen undegradable protein **NRC 2001**	-	-	-	39	%Cude Protein

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Other Nutritional Values

Parameter	As fed	on DM	Unit	Other	Other Unit
Ca abs/Absorbable Calcium by ruminants **INRA 2018**	6.1	6.8	g/kg	-	-
P abs/Absorbable Phosphorus by ruminants **INRA 2018**	1.7	1.9	g/kg	-	-
DEB Dietary electrolyte balance	504	560	mEq/kg	-	-
DCAB Dietary Cation-Anion balance	342	380	mEq/kg	-	-
VS/Structure value **CLVO Gent**	-	-	-	2.4	Unit
bVEC/Fill unit **INRA 2018**	-	-	-	0.34	UEL/kgDM
IT3/Omega 3 index **BBC**	4.7	5.2	-	-	Unit
RFV/Relative feed value **USDA**	-	-	-	146	Unit

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