TECHNICAL DATA SHEET

LUZATOP

Feed material

Presentation : Pellets of 6 mm diameter
Origin : France
HS Code : 12 14 10 00
Features :

Luzatop : Dehydrated alfalfa 18% crude protein on dry matter basis - 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	9.5	0.0	%	-	-
Crude protein	16.3	18.0	%	-	-
Crude fat	2.6	2.9	%	-	-
Crude Ash	11.8	13.0	%	-	-
Crude Fiber	26.2	29.0	%	-	-
NDF	36.4	40.2	%	-	-
Starch	0.0	0.0	%	-	-
ADF	25.6	28.3	%	-	-
ADL	6.7	7.4	%	-	-
Lignin	6.7	7.4	%	-	-
Insoluble Ash	1.8	2.0	%	-	-
Soluble Cell walls	9.0	9.9	%	-	-
Insoluble Cell walls	45.0	49.7	%	-	-
Sucres totaux/Sugars	4.2	4.6	%	-	-
Xanthophylls	150	166	ppm	-	-
Lutein+Zeaxanthin	90	99	ppm	-	-
Carotene	50	55	ppm	-	-
Vitamin E	50	55	ppm	-	-

Minerals

Parameter	As fed	on DM	Unit	Other	Other Unit
Calcium	23.8	26.3	g/kg	-	-
Phosphorus	2.3	2.5	g/kg	-	-
Magnesium	1.5	1.7	g/kg	-	-
Potassium	25.1	27.7	g/kg	-	-
Sodium	0.2	0.2	g/kg	-	-
Chlorine	5.0	5.5	g/kg	-	-
Sulphur	2.6	2.9	g/kg	-	-
Manganese	45.0	49.7	ppm	-	-
Zinc	22.0	24.3	ppm	-	-
Copper	5.0	5.5	ppm	-	-
Iron	450.0	497.2	ppm	-	-
Selenium	0.3	0.3	ppm	-	-
Cobalt	0.3	0.3	ppm	-	-
Iodine	0.5	0.6	ppm	-	-
Nickel	1.4	1.5	ppm	-	-
Fluorine	9.0	9.9	ppm	-	-
Molybdenum	0.6	0.7	ppm	-	-

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Amino acids

Parameter	As fed	on DM	Unit	Other	Other Unit
Lysine	7.7	8.5	g/kg	-	-
Methionine	2.3	2.5	g/kg	-	-
Cystine	1.9	2.1	g/kg	-	-
Threonine	7.1	7.8	g/kg	-	-
Tryptophane	2.6	2.9	g/kg	-	-
Isoleucine	7.1	7.8	g/kg	-	-
Valine	9.9	10.9	g/kg	-	-
Leucine	11.8	13.0	g/kg	-	-
Histidine	3.3	3.6	g/kg	-	-
Phenylalanine	8.3	9.2	g/kg	-	-
Tyrosine	4.8	5.3	g/kg	-	-
Arginine	6.6	7.3	g/kg	-	-
Alanine	8.9	9.8	g/kg	-	-
Aspartic acid	21.7	24.0	g/kg	-	-
Glutamic acid	15.4	17.0	g/kg	-	-
Glycine	7.8	8.6	g/kg	-	-
Serine	6.9	7.6	g/kg	-	-
Proline	8.0	8.8	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	3.3	3.6	g/kg	-	-
C18:0 stearic acid	0.5	0.6	g/kg	-	-
C18:1 oleic acid	0.6	0.7	g/kg	-	-
C18:2 linolenic acid	3.0	3.3	g/kg	-	-
C18:3 linolenic acid	6.3	7.0	g/kg	-	-

Energy Nutritional Values

Parameter	As fed	on DM	Unit	Other	Other Unit
VEM/Net Energy for milk **CVB 2018**	646	714	/kg	-	-
VEVI/Net Energy for gain **CVB 2018**	623	688	/kg	-	-
UFL/Net Energy for milk **INRA 2018**	0.68	0.75	/kg	-	-
UFV/Net energy for gain **INRA 2018**	0.6	0.66	/kg	-	-
dMO/ Digestibility of organic matter **INRA 2007**	-	-	-	61	%MO
NEl3X/Net Energy for milk **NRC 2001**	4.3	4.75	MJ/kg	-	-
NEg3X/Net Energy for gain **NRC 2001**	2.5	2.76	MJ/kg	-	-
NEm3X/Net Energy for maintenance **NRC 2001**	4.6	5.08	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**	76	84	g/kg	-	-
OEB/Rumen degradable protein balance **CVB 2018**	22	24	g/kg	-	-
BPR/Rumen degradable protein balance **INRA 2018**	19	21	g/kg	-	-
PDI/Intestinal digestible protein from feed **INRA 2018**	91	101	g/kg	-	-
PDIA/Intestinal digestible protein from feed **INRA 2018**	48	53	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	-	-	-	8.5	% PDI
Phenylalanine digestible INRA 2018	-	-	-	5.3	% PDI
Arginine digestible INRA 2018	-	-	-	4.8	% PDI
Histidine digestible INRA 2018	-	-	-	1.9	% PDI
Methionine digestible INRA 2018	-	-	-	1.6	% PDI
Lysine digestible INRA 2018	-	-	-	6.7	% 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**	6.3	7.0	g/kg	-	-
P abs/Absorbable Phosphorus by ruminants **INRA 2018**	1.8	2.0	g/kg	-	-
DEB Dietary electrolyte balance	510	564	mEq/kg	-	-
DCAB Dietary Cation-Anion balance	347	383	mEq/kg	-	-
VS/Structure value **CLVO Gent**	-	-	-	1	Unit
bVEC/Fill unit **INRA 2018**	-	-	-	0.34	UEL/kgDM
IT3/Omega 3 index **BBC**	5.4	6.0	-	-	Unit
RFV/Relative feed value **USDA**	-	-	-	-	Unit

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