

05.03.2014

SIA "Humin Vit"

The analyses of sapropel from Ubogova Lake (Rezekne district) were carried out in the Laboratory of Biochemistry and Physiology of Animals.

Qualitative indices, %

Wet matter 91.7
Dry matter 8.3

	wet matter	dry matter
Crude protein	0.86	10.33
Digestible protein	26.85 (2.30 g/kg)	26.85 (27.71 g/kg)
Nitrogen	0.14	1.65
Crude fiber	1.86	22.42
Crude fat	1.02	12.25
Carbohydrates	0.05	0.60
Reducing sugars	0.04	0.43
Dissaharides (sucrose)	0.014	0.17
Amino acids, %		
Glutamic acid	0.110	1.33
Tyrozine	0.108	1.30
Asparaginic acid	0.06	1.28
Tryptophan*	0.088	1.06
Leucine*	0.081	0.98
Alanine	0.064	0.77
Glycine	0.059	0.71
Histidine*	0.053	0.64
Serine	0.051	0.61
Threonine*	0.044	0.53
Lysine*	0.037	0.45
Arginine*	0.030	0.36
Proline	0.023	0.28
Phenylalanine*	0.022	0.27
Isoleucine*	0.013	0.16
Valine*	0.012	0.14
Methyonine*	0.002	0.03
Aminoacid summa	0.903	10.95

* essential aminoacids

Vitamins, mg/kg

	wet matter	dry matter
A (retinol)	2.20 (6 470 IV/kg)	26.51 (77 970 IV/kg)
E (tocopherol)	2.11	25.42
B ₁ (thiamine)	0.12	1.45
B ₂ (riboflavin)	0.20	2.35
B ₃ (PP, nikotinic acid)	4.96	59.78
B ₆ (pyridoxine)	0.06	0.723
B ₁₂ (cyancobalamin)	0.003	0.034
C (askorbic acid + dehydroaskorbic acid)	40.66	490.00
Carotenes	192.00	2216.00
Xanthophylls	47.60	572.00
Chlorophylls a+b	5.20	62.60

Macro- and microelements, mg/kg

Ca (calcium)	6275.00
Mg (magnesium)	2575.00
P (phosphorus)	672.00
K (potassium)	1600.00
Na (sodium)	147.50
Fe (iron)	5750.00
Mn (manganese)	135.00
Zn (zinc)	80.00
Cu (copper)	7.75
Se (selenium)	2.10

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