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PRODUCT SPECIFICATION No. 45

HIPRO 50

FUNCTIONAL CLASSES: PROTEIN PRODUCT FROM WHEAT AND OIL SEEDS

1. QUALITY AND SAFETY PARAMETERS

CHARACTERISTIC	PARAMETER	REFERENCE VALUE	METHOD
SENSORY	Appearance	Powdery	Reg. 2.17 (ISO 6658:2013)
PHYSICO-CHEMICAL	Moisture content	max 12%	Reg. 2.10, met. 6.
	Protein content (Nx6.25) on d.m.	min 50%	SRPS EN ISO 16634-1:2010
	Ash content	max 8%	Reg. 2.10, met. 18.
	Cellulose content	max 15%	SRPS EN ISO 6865:2008
	Fat content	max 4%	Reg. 2.10, met. 12.
	Digestibility	min 90%	SRPS ISO 6655:2003
MICROBIOLOGICAL	Total plate count (30 °C)	max 1,2x10 ⁷ /1 g	SRPS EN ISO 4833-1:2014; SRPS EN ISO 4833-1:2014/A1:2022
	<i>Salmonella</i> spp.	Negative /50 g	SRPS ISO 6579-1:2017SRPS EN ISO 6579-1:2017 except for annex D;SRPS EN ISO 6579-1:2017/A1:2020
	<i>Clostridium perfringens</i>	Negative /50 g	SRPS EN ISO 15213-2:2023
	Molds and yeasts	max 200 000/1 g	SRPS ISO 21527-1:2011
THE PRESENCE OF CONTAMINANTS AND RESIDUES	Lead (Pb)	max 10 mg/kg	VM/MET 865
	Arsenic (As)	max 2 mg/kg	VM/MET 865
	Mercury (Hg)	max 0.1 mg/kg	VM/MET 865
	Cadmium (Cd)	max. 1 mg/kg	VM/MET 865
	Aflatoxin (B1)	max 0.03 mg/kg	VM/MET 913
	Deoxynivalenol (DON)	max 8 mg/kg	VM/MET 913
	Dioxin content	max 0.75 ng/kg	GC/MS
	Content (total) of dioxins and dioxin-like PCBs	max 1.25 ng/kg	GC/MS
	Content of no dioxin-like PCBs (total PSB 28, PSB 52, PSB 101, PSB 138, PSB 153, PSB 180 (ICES-6))	max 10 ng/kg	GC/MS
	Pesticide residues	According to Reg. 2.8 i Reg. 2.16	SRPS EN 15662

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2. REFERENCE REGULATIONS

2.1	Law on Food Safety ("Off. Gazette of RS", no. 41/09, 17/19)
2.2	The veterinary law ("Off. Gazette of RS", no. 91/2005, 30/2010, 93/2012 i 17/2019 – other Reg.)
2.3	Regulation on the hygienic quality of drinking water ("Off. Gazette of SRJ", no. 42/98, 44/99 and "Off. Gazette of RS", no. 28/19)
2.4	Law on Genetically Modified Organisms („Sl. glasnik RS”, br. 41/09)
2.5	Regulation on food hygiene requirements („Sl. glasnik RS”, br. 73/10)
2.6	Regulation on general and special conditions of animal feed hygiene („Sl. glasnik RS”, br. 78/10)
2.7	Regulation on declaration, marking and advertising of animal feed („Sl. glasnik RS”, br. 4/10)
2.8	Regulation on the quality of animal feed („Sl. glasnik RS“, br. 4/2010, 113/2012, 27/2014, 25/2015, 39/2016 i 54/2017)
2.9	Regulation on general and special conditions of hygiene of animal feed („Sl. glasnik RS”, br. 23/2018)
2.10	Regulation on sampling methods and methods of physical, chemical and microbiological analysis of animal feed („Sl. list SFRJ", br. 15/87)
2.11	Regulation on methods of physical and chemical analysis on the quality of cereals, milling and bakery products, pasta and quick frozen dough („Sl. list SFRJ”, br. 74/88)
2.12	Regulation on the maximum permitted quantities of residues of plant protection products in food and feed ("Sl. glasnik RS", br. 91/22, br. 26/24)
2.13	Regulation on maximum concentrations of certain contaminants in food (" Sl. glasnik RS“, br. 73/24, 90/24, 47/25, 61/25)
2.14	Regulation on the limits of radionuclide content in drinking water, food, feed, drugs, general purpose goods, building materials and other goods that are placed on the market („Sl. glasnik RS“, br. 36/18)
2.15	Regulation on conditions regarding the health fitness of items of general use that can be placed on the market („Sl. list SFRJ“ br. 26/83, 61/84, 56/86, 50/89, 18/91, 60/2019 – dr. pravilnik i 78/2019 – dr. pravilnik)
2.15	Guide to the application of microbiological criteria for food (Ministry of Agriculture, Forestry and Water Management of RS, June/11)
2.16	Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC Text with EEA relevance.
2.17	Specification of the buyer
2.18	Internal regulations (procedures, instructions, manuals, study quality and safety HPK)

3. USE AND SHELF LIFE

PRODUCT DESCRIPTION	Fine powder of gray-brown color.
BRIEF DESCRIPTION OF THE TECHNOLOGICAL PRODUCTION PROCEDURE	Hipro 50 is obtained from high-protein wheat gluten in the process of washing and drying wheat flour with the addition of sunflower meal.
PRODUCT COMPOSITION	<ol style="list-style-type: none"> 1. Vital wheat gluten 2. Sunflower meal - meal from partially peeled sunflower seeds
WHOM IS PRODUCTS INTENDED FOR	A component for special mixes for animal feed, pet food and fish feed.
ALLERGEN INFO	Gluten - YES
DECLARATION OF GMOs	The product is not genetically modified and should not

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	contain GMOs.
SHELF LIFE	12 months.

4. DETAILS OF ORIGIN

GEOGRAPHICAL ORIGIN OF RAW MATERIALS	Republic of Serbia.
MANAGEMENT SYSTEM	/

5. INFORMATION ON PACKAGING, TRANSPORT AND DELIVERY

PACKAGING	- 25/1 kg in white kraft bags – 1000 kg per pallet, marked and wrapped with stretch foil - 1000 kg in PP bags
STORAGE	Cool, clean and well-ventilated dry area. Ambient conditions.
WAY OF DISTRIBUTION (TRANSPORT)	The hygienic and technically correct vehicles intended for food transport. Ambient conditions.

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