

MRÁZ AGRO BREWER'S YEAST+

Brewer's yeast protein feed speciality

Description

Mráz Agro Yeast+ is high quality protein feed material produced by processing the finest brewer's yeast from local breweries, which are enriched with active *Saccharomyces cerevisiae* yeast before drying for better taste (less bitter) which promotes better digestibility. The yeast is then inactivated at high temperatures and dried on a contact drum dryer. Mráz Agro Yeast+ contains no non-protein nitrogen and consists solely of *Saccharomyces cerevisiae*. It serves as a natural source of minerals, proteins and B-group vitamins.

Mráz Agro Yeast+ Is light brown in color, has typical yeasty or brewer's yeast smell with no foreign odors.

Physical and chemical parameters

- | | |
|----------------|-----------------|
| • Dry solids: | min. 92.0 w/w % |
| • Raw protein: | min. 45.0 w/w % |
| • Raw fat | min. 3.0 w/w % |
| • Starch | max. 25 w/w % |
| • Fiber | < 0,01 w/w % |
| • Ash | max. 7 w/w % |

These parameters are measured by an external laboratory: pesticides, dioxins, mycotoxins, heavy metals, salmonella and GMO according to our monitoring system. Parameters are typical values.

Energy and digestion factors

Protein digestibility	g/kg	> 850
ADF	g/kg	<1
NDF	g/kg	<1
ADL (Lignin)	g/kg	<1
Beta-glucans	%	6.2

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Protein digestibility

Cattle	%	90,00
Horse	%	92,00
Pig	%	89,00
Sheep	%	96,30
Carnivores	%	85,00
Poultry	%	76,00

Category parameters

Horse	SEk	MJ/kg	15,3
Cattle	MEs	MJ/kg	12,89
Cattle	MEs_194	MJ/kg	15,75
Cattle	NEL	MJ/kg	8,00
Cattle	NEV	MJ/kg	8,37
Cattle	PDIA	g/kg	68,78
Cattle	PDIN	g/kg	266,88
Cattle	DIE	g/kg	130,75
Pig	Total Dig. Substances	g/kg	824,51
Pig	MEp	MJ/kg	15,57
Sheep	NELo	MJ/kg	7,56
Sheep	NEVo	MJ/kg	7,8
Sheep	PDIA	g/kg	68,78
Sheep	PDIN	g/kg	266,88
Sheep	PDIEo	g/kg	129,67
Carnivores	ME _m	MJ/kg	11,62
Carnivores	ME _m _194	MJ/kg	14,23
Carnivores	ME _m D_194	MJ/kg	14,21
Poultry	ME _d	MJ/kg	13,28

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Minerals

Sodium (Na)	g/kg	0.68
Calcium (Ca)	g/kg	2.07
Potassium (K)	g/kg	19
Magnesium (Mg)	g/kg	1.27
Phosphorus (P)	g/kg	9.16
Sulfur (S)	mg/kg	2074
Iron (Fe)	mg/kg	38.23
Manganese (Mn)	mg/kg	6.47
Copper (Cu)	mg/kg	4.59
Zinc (Zn)	mg/kg	102.4
Cobalt (Co)	mg/kg	0.15
Selenium (Se)	mg/kg	<0.1
Lead (Pb)	mg/kg	<1

Vitamins

Vitamin B1 (Thiamine)	mg/kg	41.9
Vitamin B2 (Riboflavin)	mg/kg	13.3
Vitamin B3 (Niacin)	mg/kg	21.3
Vitamin B5 (Pantothenic Acid)	mg/kg	141
Vitamin B6 (Pyridoxine)	mg/kg	1.61
Vitamin B7 (Biotin)	µg/kg	12.4
Vitamin B9 (Folate)	mg/kg	8.57
Vitamin B12 (Cyanocobalamin)	µg/kg	1.02
Choline	mg/kg	3250

Fatty Acids

Saturated Fatty Acids	g/100g	1.04
Monounsaturated Fatty Acids	g/100g	3.17
Polyunsaturated Fatty Acids	g/100g	<0.05
Trans Fatty Acids	g/100g	0.047

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Amino Acids

Methionine	%	0,669
Lysine	%	2,89
Threonine	%	1,98
Aspartic acid	%	4,18
Serine	%	2,22
Glutamic acid	%	5,9
Glycine	%	1,83
Alanine	%	2,59
Tyrosine	%	1,95
Valine	%	2,02
Phenylalanine	%	1,59
Isoleucine	%	1,68
Leucine	%	2,9
Histidine	%	0,934
Arginine	%	1,92
Cysteine	%	0,498
Proline	%	0,218
Tryptophan	%	0,173

Shelf-Life

- 24 months if stored in a dry place with no direct sunlight

Packaging and transport

- 25 kg bags
- Big Bags

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Physical characteristics

Structure	Fine powder
Color	Light brown
Smell	Typical brewer's yeast smell
Bulk density	600 kg/m ³

Legislation and Certificates

- The product complies with current EU and Czech regulations, including EU regulation 2022/1104; catalogue of feed materials. Product belongs to the category „Yeasts (Brewers' yeast)”, under the 12.1.5. number.
- Based on Regulation (EU) No 1272/2008 of the European Parliament and of the Council, the product is not classified as a hazardous substance or mixture; accordingly, pursuant to Article 31 of Regulation (EC) 1907/2006, the provision of a safety data sheet is not mandatory.
- The product complies with Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed.
- The product does not contain GMO organisms - according to EP and Council Regulations 1829/2003 and 1830/2003
- We don't use any instruments with any kind of sources of radioactivity. Our products are monitored by external laboratory, the results of these investigations meet requirements of the EU regulations.
- Non-GMO, FSSC 22 000 Certificate, complies with GMP+ rules of food safety material sourcing (GFSI), Certificate of Conformity.

Origin

- Production site: Mráz Agro, Jihlavská 605/8, 588 51, Batelov
- Production plant reg. no. CZ 800653-07
- EU, Czech Republic