

TECHNICAL DATA SHEET

Product: Dry brewery yeasts

Issue Number: 02/26

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Product information: 100% Dry brewery yeasts (*Saccharomyces cerevisiae*),
dried on a **drum dryer**

Appearance: Light beige to brown powder

Organoleptic Characteristics:

Odor: Specific yeast (ISO DSTU 7344:2022)

Taste: Specific yeast with slight beery note (ISO DSTU 7344:2022)

Applications: For various applications, e.g. as a functional feed ingredient or for use
in feed supplements

Ingredients: 100% Dry brewery yeasts (*Saccharomyces cerevisiae*)

<u>Chemical:</u>	Dry matter	92% minimum
	Protein	45(±2)% minimum (anhydrous basis)
	Fat	2% maximum (anhydrous basis)
	Ash	7,0% maximum (anhydrous basis)
	pH	4,0 – 6,0%
	Nitrogen content of volatile bases	no more than 0.2%

Physical: Particle Size about 70 - 40 mesh (200 – 400 microns)

<u>Microbiological:</u>	Total aerobic count	50000 CFU/g maximum (ISO DSTU 7344:2022)
	Yeast (active)	1000 CFU/g maximum
	Mould	25 CFU/g maximum
	Coliforms	negative in 25 g
	E.coli	negative in 25 g
	Staphylococcus Aureus	negative in 25 g
	Salmonella	negative in 25 g

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<u>Heavy Metals:</u>	Lead (Pb)	$\leq 2,0$ mg / kg (ISO DSTU 7344:2022)
	Mercury (Hg)	$\leq 0,1$ mg / kg (ISO DSTU 7344:2022)
	Cadmium (Cd)	$\leq 0,3$ mg / kg (ISO DSTU 7344:2022)
	Arsenic (As)	$\leq 1,0$ mg / kg (ISO DSTU 7344:2022)
<u>Vitamins:</u>	Nicotinic acid (B3) content:	- 13,0 - 40,00 mg/100g
	Pyridoxine (B6) content:	- 0,50 - 1,53 mg/100g
	Thiamine (B1) content:	- 3,45 - 10,00 mg/100g
	Folic acid (B9) content:	- 2,00 - 3,17 mg/100g
	Pantothenic acid (B5) content:	- 10,80 - 18,00 mg/100 g
	Riboflavin (B2) content:	- 0,65 - 4,00 mg/100g
	Biotin (B7) content:	- 0,140 - 0,142 mg/100g
<u>Aminoacids (approx.):</u>	Lysine	- 20,90 $\pm$ 1 g/kg
	Methionine	- 7,360 $\pm$ 1 g/kg
	Threonine	- 17,20 $\pm$ 1 g/kg
	Leucine	- 32,71 $\pm$ 1 g/kg
	Isoleucine	- 21,84 $\pm$ 1 g/kg
	Valine	- 27,42 $\pm$ 1 g/kg
	Histidine	- 10,21 $\pm$ 1 g/kg
	Arginine	- 13,87 $\pm$ 1 g/kg
	Serine	- 19,63 $\pm$ 1 g/kg
	Alanine	- 16,30 $\pm$ 1 g/kg
	Phenylalanine	- 19,47 $\pm$ 1 g/kg
	Tyrosine	- 10,98 $\pm$ 1 g/kg
	Glycine	- 24,71 $\pm$ 1 g/kg
	Aspartic acid	- 27,28 $\pm$ 1 g/kg
	Glutamic acid	- 51,92 $\pm$ 1 g/kg
	Proline	- 22,77 $\pm$ 1 g/kg

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<u>Solubility:</u>	Soluble in water with the formation of a small insoluble precipitate. Solubility 99.5%
<u>Origin of Raw Material:</u>	The Brewer's yeast cream is sourced from Ukrainian breweries (Carlsberg). Only natural ingredients like malt, hops, yeast and water are used for the propagation of the Brewer's Yeast.
<u>GMO status:</u>	No genetically modified organisms were used either in the yeast strains or the media grown upon, therefore this product is classified as GMO free.
<u>Pesticide controls:</u>	Monitoring of pesticide residues is implemented in the HACCP System.
<u>Undesirable substances:</u>	Does not contain toxic compounds (dioxins and PCBs) and antibiotics.
<u>Legal status:</u>	Classified as feed additive.
<u>Packaging:</u>	1 MT Big-bags, 25kg craft-bags with polyethylene inner bag.
<u>Storage:</u>	Store in sealed containers and light protected in a cool, dry environment.
<u>Shelf life:</u>	12 months after production date.
<u>Certificates:</u>	ISO 9001:2015, ISO 22000:2019