



## PRODUCT SPECIFICATION

DI 04 PR 06

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Version 5

| 1.Identification                   |                                                                                                                                                                                                                                                                                        |  |
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| Product name                       | INACTIVE DRY BREWER‘ S YEAST, de-bittered                                                                                                                                                                                                                                              |  |
| Purpose                            | Food grade                                                                                                                                                                                                                                                                             |  |
| 2. Product description             |                                                                                                                                                                                                                                                                                        |  |
| Description                        | Inactive dry brewer’s yeast, de-bittered is produced from liquid brewer’s yeast and liquid yeast cream grown on the Saccharomyces yeast species.<br>Liquid brewer’s yeast and liquid yeast cream are mixed in the same proportion and processed according to the technological scheme. |  |
| 3. Technical requirements          |                                                                                                                                                                                                                                                                                        |  |
| Sensory & physical                 |                                                                                                                                                                                                                                                                                        |  |
| Appearance                         | It is free flowing powder, not stacked into big granules.                                                                                                                                                                                                                              |  |
| Colour                             | Beige                                                                                                                                                                                                                                                                                  |  |
| Smell and taste                    | Characterized for the product, without outside smell and taste.                                                                                                                                                                                                                        |  |
| Particle size                      | 100% through the sieve No. 14                                                                                                                                                                                                                                                          |  |
| Bitterness                         | ≤ 30,0 BU                                                                                                                                                                                                                                                                              |  |
| Specifications                     |                                                                                                                                                                                                                                                                                        |  |
| Moisture content                   | ≤ 8,0 %                                                                                                                                                                                                                                                                                |  |
| Protein content                    | 45,0 ± 2 %                                                                                                                                                                                                                                                                             |  |
| Ash content                        | < 7,0 %                                                                                                                                                                                                                                                                                |  |
| Fat content                        | approx. 2,0 %                                                                                                                                                                                                                                                                          |  |
| Beta-glucan                        | 9,49 – 12,0 %                                                                                                                                                                                                                                                                          |  |
| Vitamins (approx.)                 |                                                                                                                                                                                                                                                                                        |  |
| Thiamine (B <sub>1</sub> )         | 2,71 mg/100 g                                                                                                                                                                                                                                                                          |  |
| Riboflavin (B <sub>2</sub> )       | 1,12 mg/100 g                                                                                                                                                                                                                                                                          |  |
| Total Niacin (B <sub>3</sub> )     | 17,70 mg/100 g                                                                                                                                                                                                                                                                         |  |
| Pantothenic acid (B <sub>5</sub> ) | 5,75 mg/100 g                                                                                                                                                                                                                                                                          |  |
| Vitamin B <sub>6</sub>             | 0,68 mg/100 g                                                                                                                                                                                                                                                                          |  |
| Biotin (B <sub>8</sub> )           | 89,80 µg/100 g                                                                                                                                                                                                                                                                         |  |
| Total Folate (B <sub>9</sub> )     | 0,67 mg/100 g                                                                                                                                                                                                                                                                          |  |
| Vitamin B <sub>12</sub>            | < 0,25 µg/100 g                                                                                                                                                                                                                                                                        |  |
| Aminoacids (approx.)               |                                                                                                                                                                                                                                                                                        |  |
| Lysine                             | 26,85 g/kg                                                                                                                                                                                                                                                                             |  |
| Methionine                         | 9,01 g/kg                                                                                                                                                                                                                                                                              |  |
| Threonine                          | 17,45 g/kg                                                                                                                                                                                                                                                                             |  |
| Leucine                            | 28,02 g/kg                                                                                                                                                                                                                                                                             |  |
| Isoleucine                         | 19,82 g/kg                                                                                                                                                                                                                                                                             |  |
| Valine                             | 24,76 g/kg                                                                                                                                                                                                                                                                             |  |
| Histidine                          | 14,44 g/kg                                                                                                                                                                                                                                                                             |  |
| Arginine                           | 21,43 g/kg                                                                                                                                                                                                                                                                             |  |
| Serine                             | 20,72 g/kg                                                                                                                                                                                                                                                                             |  |
| Alanine                            | 25,08 g/kg                                                                                                                                                                                                                                                                             |  |
| Phenylalanine                      | 17,70 g/kg                                                                                                                                                                                                                                                                             |  |
| Tyrosine                           | 13,75 g/kg                                                                                                                                                                                                                                                                             |  |
| Glycine                            | 23,83 g/kg                                                                                                                                                                                                                                                                             |  |
| Proline                            | 23,71 g/kg                                                                                                                                                                                                                                                                             |  |
| Aspartic acid                      | 40,19 g/kg                                                                                                                                                                                                                                                                             |  |
| Glutamic acid                      | 68,39 g/kg                                                                                                                                                                                                                                                                             |  |

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| Minerals                                                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium (Ca)                                                                                                                                                            | 203,2 mg/100 g                                                                                                                                                                                                                                                                                  |
| Potassium (K)                                                                                                                                                           | 1966,3 mg/100 g                                                                                                                                                                                                                                                                                 |
| Phosphorus (P)                                                                                                                                                          | 1250,0 mg/100 g                                                                                                                                                                                                                                                                                 |
| Magnesium (Mg)                                                                                                                                                          | 171,4 mg/100 g                                                                                                                                                                                                                                                                                  |
| Sodium (Na)                                                                                                                                                             | 102,0 mg/100 g                                                                                                                                                                                                                                                                                  |
| Iron (Fe)                                                                                                                                                               | 10,60 mg/100 g                                                                                                                                                                                                                                                                                  |
| Zinc (Zn)                                                                                                                                                               | 7,2 mg/100 g                                                                                                                                                                                                                                                                                    |
| Copper (Cu)                                                                                                                                                             | 500,0 µg/100 g                                                                                                                                                                                                                                                                                  |
| Manganese (Mn)                                                                                                                                                          | 680,0 µg/100 g                                                                                                                                                                                                                                                                                  |
| Microbiological specification                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| Total plate count                                                                                                                                                       | ≤ 10,0 x 10 <sup>3</sup> cfu /g                                                                                                                                                                                                                                                                 |
| Escherichia coli                                                                                                                                                        | < 1,0 x 10 <sup>1</sup> cfu/g                                                                                                                                                                                                                                                                   |
| Staphylococcus aureus                                                                                                                                                   | ≤ 1,0 x 10 <sup>2</sup> cfu/g                                                                                                                                                                                                                                                                   |
| Coliforms                                                                                                                                                               | 0 cfu/g                                                                                                                                                                                                                                                                                         |
| Yeast and mould                                                                                                                                                         | ≤ 1,0 x 10 <sup>2</sup> cfu/g                                                                                                                                                                                                                                                                   |
| Salmonella                                                                                                                                                              | Absent in 25 g                                                                                                                                                                                                                                                                                  |
| Contaminants                                                                                                                                                            |                                                                                                                                                                                                                                                                                                 |
| Melamine                                                                                                                                                                | < 2,5 ppm                                                                                                                                                                                                                                                                                       |
| Cadmium (Cd)                                                                                                                                                            | < 1,0 ppm                                                                                                                                                                                                                                                                                       |
| Lead (Pb)                                                                                                                                                               | < 3,0 ppm                                                                                                                                                                                                                                                                                       |
| Mercury (Hg)                                                                                                                                                            | < 0,1 ppm                                                                                                                                                                                                                                                                                       |
| Arsenic (As)                                                                                                                                                            | < 1,0 ppm                                                                                                                                                                                                                                                                                       |
| Radiology specification                                                                                                                                                 |                                                                                                                                                                                                                                                                                                 |
| Cesium (sum of Cs-134 and Cs- 137)                                                                                                                                      | < 12500 Bq/kg                                                                                                                                                                                                                                                                                   |
| Sum of strontium isotopes (Sr-90)                                                                                                                                       | < 7500 Bq/kg                                                                                                                                                                                                                                                                                    |
| GMO information                                                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| GMO status                                                                                                                                                              | GMO free                                                                                                                                                                                                                                                                                        |
| Packaging                                                                                                                                                               |                                                                                                                                                                                                                                                                                                 |
| 5,0 kg paper bags with PE inner liner;<br>10,0 kg paper bags with PE inner liner;<br>20,0 kg paper bags with PE inner liner;<br>25,0 kg paper bags with PE inner liner. | Commission Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food.<br><br>Commission Regulation (EU) No. 2020/1245 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. |
| Allergen information                                                                                                                                                    |                                                                                                                                                                                                                                                                                                 |
| Shelf life                                                                                                                                                              | May contain <b>gluten</b>                                                                                                                                                                                                                                                                       |
| Storage recommendation                                                                                                                                                  | 24 months after production date in sealed package.                                                                                                                                                                                                                                              |
| Intended use                                                                                                                                                            | Store in dry place, not more than 75% relative humidity.                                                                                                                                                                                                                                        |
|                                                                                                                                                                         | The product is fully prepared for the production and consumption of food supplements.                                                                                                                                                                                                           |

Date of review: 2026-01-14