



## Technical Data Sheet

### Hercules-Dehydrated Yeast (500g)

#### Product Description

**Hercules Dehydrated Yeast** is developed by WHC Lab.

Hercules is a newly developed distillers yeast that produces complex congeners including dark fruits, and leather. Perfect for grain-based spirits that will be barrel-aged to add to the complexity of the spirit produced from the wash.

This yeast is characterized as having fast and reliable fermentation, making it a great house whiskey strain.

#### Guidelines

Oxygenation and/or rehydration may not be needed.

Pitch rate: 70-100g/hl

The intended fermentation temperature range is 28°C to 38°C.

#### Ingredient Declaration

Yeast	98.8% to 99.2%
Emulsifier E491*	0.8% to 1.2% (*Sorbitan Monostearate)

#### Technical Specification

Yeast Strain	<i>Saccharomyces cerevisiae</i>
Dosage	70-100g/hl
Fermentation Temperature	28°C to 38°C
ABV Tolerance	16%
Nitrogen Demand	Medium
Weight	0.5 kg / 10 kg

#### Physical, Chemical and Microbiological properties

Parameter	Unit of Measure	Value	Specification Value
Appearance	-	Fine granules (typically 3mm particle size)	-
Powder flow characteristics	-	Free flowing granules	-
Odor	-	Weak characteristic yeast smell	Typical
Color	-	Light brown/beige	Light brown/beige
Solubility	-	Miscible in water & ethanol solutions	-
Dry matter	%	95.4	> 92
Moisture	%	4 to 6	< 8
Total Yeast Plate Count	Cfu/g	1.3 x 10 <sup>10</sup>	>10 <sup>10</sup>
Direct Live Cell Count	Cells/g	1.9 x 10 <sup>10</sup>	> 1.9 x 10 <sup>10</sup>
Lactic Acid Bacteria	Cfu/g	< 10	< 10 <sup>3</sup>
Acetic Acid Bacteria	Cfu/g	< 10	< 10 <sup>4</sup>
Wild Yeasts	Cfu/g	< 10	< 10 <sup>5</sup>
Moulds	Cfu/g	< 10	< 10 <sup>2</sup>
Coliforms	Cfu/g	< 10	< 10 <sup>2</sup>
<i>Escherichia coli</i>	Cfu/g	Absent in 1 g	Absent in 1 g
<i>Staphylococcus aureus</i>	Cfu/g	Absent in 1 g	Absent in 1 g
<i>Salmonella spp</i>	Cfu/g	Absent in 25 g	Absent in 25 g
<i>Listeria monocytogenes</i>	Cfu/g	Absent in 25 g	Absent in 25 g

#### Allergens\*

Hercules Dehydrated Yeast does not contain added allergens. Allergens not handled on site.

\*EU Regulation 1169/2011 (Food Information Regulations) (Annex II)

#### GMO

Hercules Dehydrated Yeast does not contain genetically modified organisms or materials.

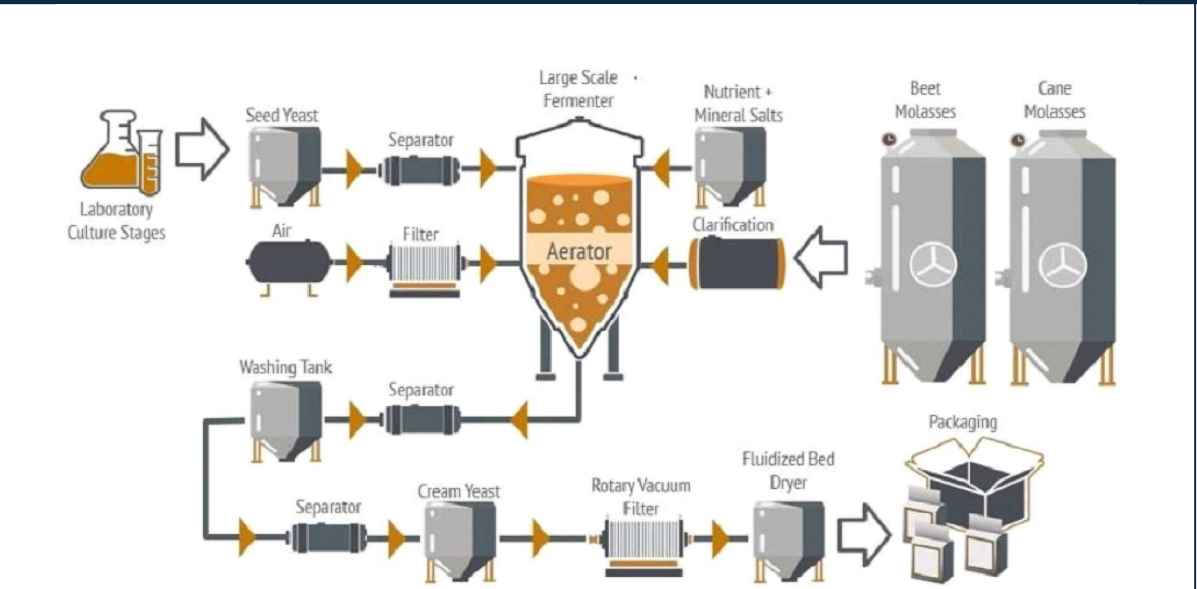
## Packaging

Hercules Dehydrated Yeast is available in 500g and 10kg vacuum-packed silver foil packs. This material complies with relevant food-contact legislation, including, EU Regulation 1935/2004 (materials intended for contact with food), EU Regulation 1245/2020 (plastic materials intended for contact with food), EU Regulation 2023/2006 (GMP for materials intended for contact with food), and FDA CFR 21 (174-179) (USA).

## Storage and Handling

Storage Conditions:	Store at cool to ambient temperatures (ideally 5°C to 15°C), dry, and well-ventilated environment.
Shelf life:	3 years from date of production, if vacuum seal is not broken, and if stored as outlined above.
Handling:	<p>Once opened, re-seal to keep out air and water. For best results, store re-sealed packs in a refrigerator (0°C to 10°C) and use promptly.</p> <p>Please note expiry date on packs prior to opening.</p> <p><b>Note:</b> When added to water or a water solution, Hercules Dehydrated Yeast releases CO<sub>2</sub>, especially on substrates high in sugars or starch. Ensure adequate ventilation to keep levels below advised exposure limits.</p> <p>Please refer to the Material Safety Data Sheet/MSDS for further advice.</p>

## Manufacturing Chart



## Flavour Chart

### Spirits flavour chart summary

										Flavour	Work Horse
Peaty	Malty	Fresh/Floral	Stone Fruit	Candy	Buttery	Nutty	Lactic	Dark fruit	Woody		