

## Product Information

### Yeast Carbon Base

Catalog Number **Y3627**

Storage Temperature 2–8 °C

#### Product Description

Yeast Carbon Base is recommended for use in the classification of yeasts on the basis of their ability to assimilate nitrogen compounds. The nitrogen assimilation ability is tested by adding various nitrogen sources such as ammonium sulfate, urea, potassium nitrate, asparagines, and peptone. Yeast Carbon Base is composed of a defined set of nutrients including a carbon source, amino acids, vitamins, and minerals required for the growth of yeasts.

#### Components

Item	g/L
Dextrose	10.00
L-Histidine Hydrochloride	0.001
DL-Methionine	0.002
DL-Tryptophan	0.002
Biotin	0.000002
Calcium Pantothenate	0.0004
Folic Acid	0.000002
Inositol	0.002
Niacin	0.0004
p-Amino Benzoic Acid	0.0002
Pyridoxine Hydrochloride	0.0004
Riboflavin (Vitamin B <sub>2</sub> )	0.0002
Thiamine Hydrochloride	0.0004
Boric acid	0.0005
Copper Sulfate	0.00004
Potassium Iodide	0.0001
Ferric Chloride	0.0002
Manganese Sulfate	0.0004
Sodium Molybdate	0.0002
Zinc Sulfate	0.0004
Monopotassium Phosphate	1.00
Magnesium Sulfate	0.50
Sodium Chloride	0.10
Calcium Chloride	0.10

pH: 5.30–5.70 [1.17% (w/v) aqueous solution at 25 °C]

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

- Nitrogen Assimilation test – Prepare the broth base at 10× concentration by dissolving 11.7 grams of Yeast Carbon Base in 100 mL of distilled water. Add the appropriate nitrogen source. Warm if necessary to dissolve the medium completely. Sterilize by filtration.
- Detection of yeasts, other than *Saccharomyces cerevisiae* – Dissolve 2.35 grams of Yeast Carbon Base in 100 mL of distilled water.
- Detection of wild yeasts in beer and other brewing components – Add 0.33 g of ammonium sulphate (Catalog No. A2939) and 4 g of bacteriological agar (Catalog No. A5306) to base B. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 minutes.

#### Storage/Stability

Store the product and the prepared medium at 2–8 °C.

#### Product Profile

Appearance: White to off-white colored, homogeneous, free flowing powder.

Solubility: clear, colorless solution [1.17% (w/v) aqueous solution at 25 °C]

Cultural Response (observed after 6–7 days, longer if necessary, at 25–30 °C.)

Organism (ATCC)	Growth	
	Plain	with Ammonium Sulfate
<i>Saccharomyces cerevisiae</i> (9763)	none–poor	good
<i>Saccharomyces uvarum</i> (9080)	none–poor	good

#### References

- Wickerham, J. Bact., **52**, 293 (1946)
- Wickerham, U.S. Dept. Agric. Tech. Bull. No. 1029 (1951).
- American Type Culture Collection, Manassas, Va., U.S.A.

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