

Yeast extract, granulated

Yeast Extract is a non animal and low endotoxin peptone suitable for use in fermentations, cell culture, molecular genetic media, and culture media for cultivation and resuscitation of a large variety of fastidious microorganisms and antibiotics assays

Mode of Action

Yeast Extract is defined in the USP as a water soluble peptone like derivative of yeast (*Saccharomyces*) cells. Yeast Extract is prepared by proteolytic autolysis of the cells. The autolytic activity is stopped by a heating step. The autolysis is carefully controlled to preserve the naturally occurring B-complex vitamins.

Yeast Extract is employed in fermentations and bacterial mammalian and insect cell cultures. It is as a versatile and growth enhancing nutritive substrate and can replace in cell cultures serum. It has an endotoxin value of less than 500 EU/g.

Typical Analysis

Colour granules	Brownish-yellow
Colour in solution	Beige
pH (2% in water)	5.5-7.2
Loss on drying (50 °C; 20 Pa, 3 h)	≤5.0%
Sulfated ash (800 °C)	≤17%
Nitrogen (ex. N calc. on dried substance)	≥10.5%
Chlorides (expressed as NaCl)	≤5.0%
Total phosphor (as P)	≤2.5%
Calcium	≤0.05%
Magnesium	≤0.10%
Heavy (toxic) metals (as Pb)	≤0.005%
Amino acid specification	See table page 542

Ordering Information

Product	Merck Cat. No.	Pack size
Yeast extract, granulated	1.03753.0500	500 g
Yeast extract, granulated	1.03753.9025	25 kg

Quality control

Test strains	Growth
<i>Staphylococcus aureus</i> ATCC 25923	+
<i>Staphylococcus aureus</i> ATCC 6538P	+
<i>Enterococcus faecalis</i> ATCC 11700	+
<i>Listeria monocytogenes</i> ATCC 19113	+
<i>Escherichia coli</i> ATCC 8739	+
<i>Klebsiella pneumoniae</i> ATCC 13883	+
<i>Salmonella typhimurium</i> ATCC 14028	+