Specification

Culture Media Ingredient.

Description

Yeast Extract is a water soluble extract of fresh autolysed yeast (Saccharomyces cerevisiae) cells prepared and standardized for use in microbiological culture media. It is a source of universal growth factors such as peptides, free amino acids, purine and pyrimidine nucleobases, trace elements and hydro soluble vitamins from the B complex. It is commonly added to culture media in concentrations between 0.2% and 1%.
Yeast Extract does not contain any component of animal origin and therefore has no risk of transmission of animal spongiform encephalopathies (TSE). It is not derived from or produced using GMOs or their derivatives and all reasonable steps have been taken to avoid contamination from GMOs or their derivatives. This has been verified by a declaration from previous suppliers.

Physico-chemical characteristics

Appearance powder..... Yellow to beige
Solubility in water 2 %..... Total
Stability after autoclaving..... No precipitate
Dry matter (%)..... ≥ 94
pH after autoclaving (solution 2 %)... 6.5-7.5
Amino Total TN (% w/w)..... 10.0 - 11.80
Amino Nitrogen AN (% w/w).....4.5 - 5.8
Sodium chloride (%) .....≤ 0.5
Proteins (TNitrogen x 6,25)..... 62.5 - 73.8
Total carbohydrates..... 7.0 - 13.0

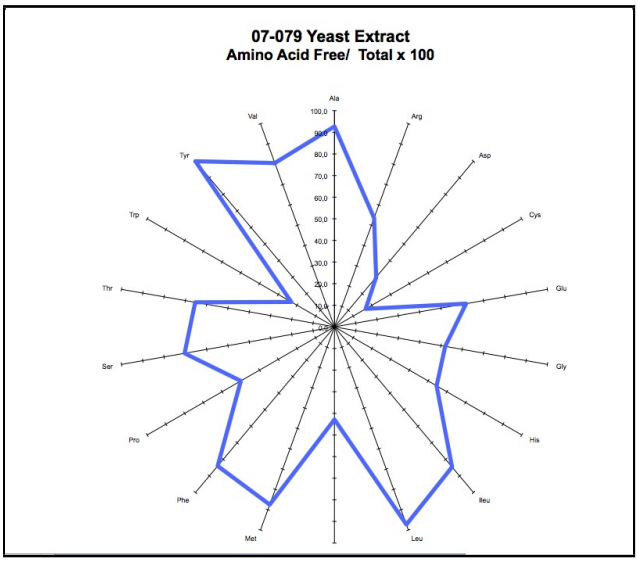
Vitamin contents *(Non exhaustive):*
Thiamine (Vitamin B1):15-110 mg/kg (ppm)
Riboflavin (Vitamin B2):80-130 mg/kg (ppm)
Pantothenic acid (Vit. B5):200-400 mg/kg (ppm)
Pyridoxine (Vitamin B6):30-100 mg/kg (ppm)
Biotin (Vitamin B8):3-10 mg/kg (ppm)
Folic acid (Vitamin B9):15-60 mg/kg (ppm)
Cyanocobalamin (Vit. B12):1-5 µg/kg (ppm)
Niacin (PP Factor):600-1000 mg/kg (ppm)

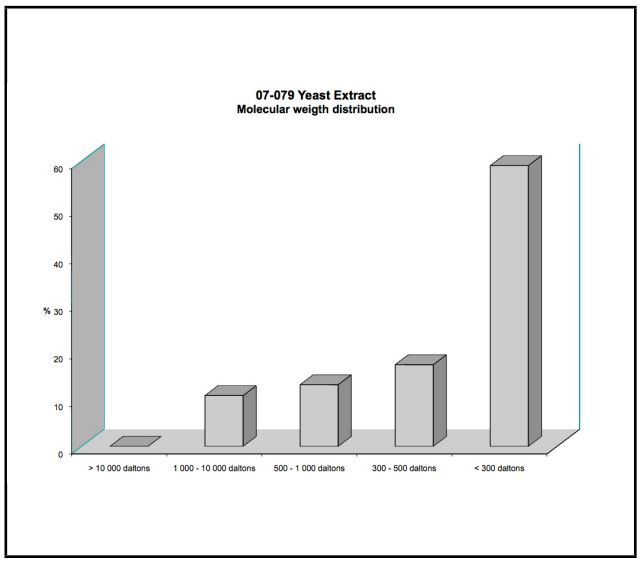
Microbiological limits

Total aerobic microbial count..... < 5000 CFU/g
Coliforms..... < 5 CFU/g
Moulds and yeasts..... < 100 CFU/g
Spores of Clostridium perfringens..... < 10 CFU/g
Staphylococcus aureus.....absent in 10 g
Escherichia coli.....absent in 10 g
Salmonella spp..... absent in 25 g

Amino Acids (Total g/100 g)

Alanine	8.6	Glycine	5.4	Tyrosine	2.2
Arginine	4.2	Isoleucine	4.6	Valine	6.7
Aspartic acid	4.5	Proline	5.7	Lysine	7.1
Cystine	0.8	Serine	5.8	Methionine	2.2
Glutamic aicid	19.6	Threonine	6.8	Histidine	2.4
				Leucine	8.5
				Phenylalanine	4.9





Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 ºC to 30 ºC).