

Nu-Tek Yeast Extract FP100

Product Code: 9605



QMS Certification Services

For Use in Mammalian Cell Culture

Nu-Tek's FP100 is a yeast extract of *Sacchomyces cerevisiae*. The resulting yeast product is rich in peptides, vitamins, amino acids and other micronutrients. It is brilliantly clear and completely soluble in a 5% solution. FP100 can be used by itself or in conjunction with other ingredients. Enhanced performance has been observed in CHO cell culture applications. This material is a suitable alternative to yeastolates, or yeast peptones often used in these applications.

Product Specification and Typical Mineral Content

<u>Test</u>	<u>Method</u>	<u>Typical Result</u>	<u>Mineral</u>	<u>Typical Result</u>
Appearance	Visual	Beige, Free-flowing, homogeneous fine powder	Calcium	23.0 mg/100g
Moisture	AOAC 991.02	≤8.0%	Copper	0.1 mg/100g
Total Nitrogen (dry basis)	AOAC 992.23	≥9.0%	Iron	18.9 mg/100g
Animo Nitrogen	AOAC 973.31	≥3.5%	Magnesium	4.0 mg/100g
pH (2% solution)	AACC-02-05	5.4-7.2	Phosphorus	1295.0 mg/100g
AN/TN Ratio	Calculation	0.45-0.65	Potassium	4655.0 mg/100g
IR	Spectrum	Compliant	Sodium	642.5 mg/100g
Standard Plate Count	AOAC 990.12	<1000 CFU/g	Zinc	32.7 mg/100g
Coliform	AOAC 991.14	<30 CFU/g		
Yeast & Mold	FDA BAM, 7 th Ed.	≤50 CFU/g		
Mycoplasma	USP 63	Not Detectable		
Salmonella	AOAC 2004.03	Negative/25g		
Endotoxin	USP 85	≤500 EU/g		
Glucan	USP 85	≤100 ug/g		

Typical Amino Acid Profile

<u>Amino Acid</u>	<u>Mg/g</u>	<u>Free</u>
ALA	47.9	39.8
ARG	31.3	17.8
ASP	63.2	20.5
CYS	7.1	NA
GLU	110.3	55.9
GLY	29.6	12.4
HIS	13.4	5.3
ILE	31	21
LEU	42.7	33.7
LYS	49.5	22.7
MET	9.5	7.8
PHE	27	23.7
SER	28.7	28.8
THR	28.9	18
TYR	11.9	6.4
VAL	39.1	25.6

Packaging and Storage

Packaging: 25kg Polyethylene bag in a corrugated box or drum. Additional configurations available.

Storage Requirements: This product should be kept in a cool, dry and ventilated place. The product should be used as soon as possible after the bag has been opened. Any partially used bags must be sealed properly to prevent moisture absorption by product.

Shelf Life: The shelf life of this product is 3 years when stored at <30°C.

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