

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 *Sacchromyces 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 |
| Amino 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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