# CASEIN PEPTONE TYPE V

**Cat. No. 376 | MI-AC-710 | Version: 9**
**Date: 14/03/2025**

BIOTECNICA
THE PEPTONE COMPANY

## PRODUCT DESCRIPTION:

Casein Peptone Type V is a pancreatic digest of casein in the form of white powder.

## POTENCIAL APPLICATIONS:

This peptone is widely used for general application as a bacteriological nutrient with excellent solubility and clarity in solution.

## PHYSICAL CHARACTERISTICS:

Fine powder, light yellow to beige colored and no foreign particles.

| Chemical Characteristics | Specifications | Typical Value |
|---|---|---|
| Amino Nitrogen (AN) | Minimum 3,70% | 4.10% |
| Total Nitrogen (TN) | Minimum 10,00% | 12.80% |
| AN/TN | N/A | 32.00 |
| Loss on drying | Maximum 6,00% | 3.60% |
| Ash | Maximum 15,00% | 5.90% |
| pH (2% solution) | 6,50 – 7,50 | 7.00 |

| Microbiological Characteristics | Specifications |
|---|---|
| Standard plate count | Less than 5000 CFU/g |
| Yeasts and molds | Less than 100 CFU/g |
| Coliforms | Negative |
| Salmonella | Negative |

| Minerals | Typical Value |
|---|---|
| Calcium | 0.0193% |
| Magnesium | 0.0053% |
| Potassium | 0.92% |
| Sodium | 2.67% |

| Growth Supporting Properties: satisfactory (according to internal controls) | |
|---|---|
| Bacterial | ATCC |
| *Escherichia coli* | 25922 |
| *Staphylococcus aureus* | 25923 |
| *Shigella flexneri* | 12022 |
| *Pseudomonas aeruginosa* | 27853 |
| *Enterococcus faecalis* | 29212 |
| *Streptococcus pyogenes* | 19615 |
| *Streptococcus pyogenes* | 49117 |
| *Streptococcus pneumoniae* | 6305 |

## PACKAGING

The dry product is packaged in polyethylene bags into reinforced fiber board drums.
25 kg | 50 kg

## STORAGE

Keep in original packaging closed, in a dry and cool place. Hygroscopic product.

## RETEST

5 years after its manufacturing date.

## CERTIFICATIONS

ISO 9001
SADER-SENASICA



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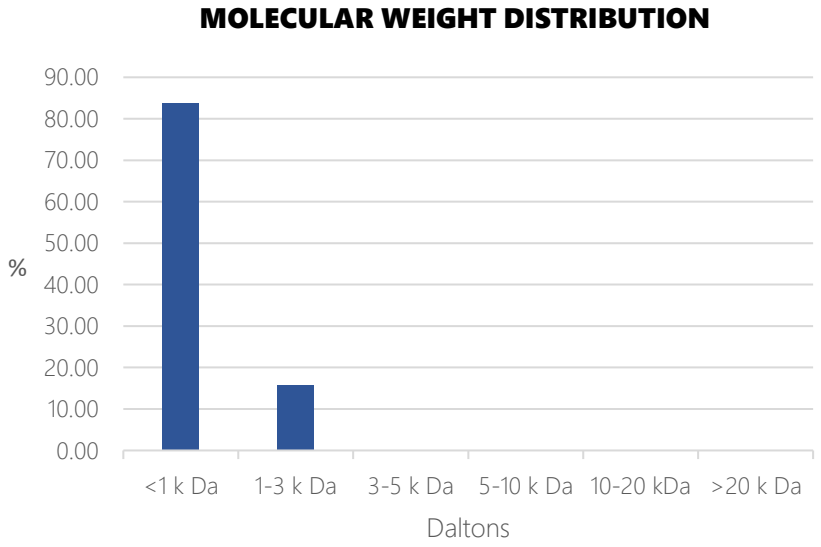
| Molecular weight distribution | % |
|---|---|
| <1 k Da | 83.80 |
| 1-3 k Da | 15.90 |
| 3-5 k Da | 0.20 |
| 5-10 k Da | 0.10 |
| 10-20 kDa | 0.00 |
| >20 k Da | 0.00 |
| Average Molecular Weight Da | 189.00 |




| Amino acid | g/100g |
|---|---|
| Glutamic acid | 23.17 |
| Proline | 12.51 |
| Aspartic acid | 12.06 |
| Leucine | 10.23 |
| Lysine | 7.27 |
| Isoleucine | 6.95 |
| Valine | 6.78 |
| Serine | 5.84 |
| Threonine | 5.37 |
| Phenylalanine | 5.31 |
| Arginine | 4.07 |
| Alanine | 3.71 |
| Histidine | 2.87 |
| Methionine | 2.38 |
| Tyrosine | 2.35 |
| Glycine | 2.30 |
| Tryptophan | 1.21 |