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TECHNICAL INFORMATION

Catalog Number: 104769

Casein Hydrolysate Acid, Vitamin Free

Description: This casein hydrolysate is an hydrochloric acid digest of casein in which the protein molecule has been substantially reduced to its constituent amino acids. Supplied as a sterile 10% solution (diluted HCl).

Applications: Laboratory media including basal media for vitamin analysis of folic acid, pantothenic acid, riboflavin, thiamin, niacin, and B-12.

Typical Analysis of Casein:

| | | | |
|------------------|-------|-----------------|----------|
| Moisture | 3.7% | Total Nitrogen | 13.3% |
| Amino N/Total N | 73.0% | Sodium Chloride | 1.1% |
| Calcium | 0.45% | Iron | < 50 ppm |
| pH (2% Solution) | 5.4 | | |

Typical Total Amino Acid Assay (mg/g of casein):

| | | | |
|---------------|-------|---------------|-------|
| Lysine | 83.8 | Alanine | 34.6 |
| Histidine | 26.4 | Cystine | NC* |
| Arginine | 35.9 | Valine | 61.5 |
| Aspartic Acid | 68.1 | Methionine | 21.8 |
| Threonine | 42.0 | Isoleucine | 42.4 |
| Serine | 54.4 | Leucine | 71.3 |
| Glutamic Acid | 183.0 | Tyrosine | 29.0 |
| Proline | 106.0 | Phenylalanine | 27.7 |
| Glycine | 20.7 | Tryptophan | < 0.5 |

*Not calculable