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# **CHYMOTRYPSIN (Porcine)**

# SPECIFICATION SHEET

I.U.B. 3.4.21.1

# DESCRIPTION

Chymotrypsin is derived from purified extraction from the porcine pancreas gland. It is a serine proteolytic enzyme that is active in the alkaline pH range.

# PHYSICAL PROPERTIES

A free-flowing crystalline powder that is white to off-white in color, soluble in water, with characteristic odor and taste.

### **ENZYMATIC PROPERTIES**

The pH optimum range is 7.8 to 8.0. The optimum temperature range is 50°C to 60°C.

### ACTIVITY

The activity for the Chymotrypsin is done according to the USP methods. The acceptance criteria for all enzyme assays is: NLT 85.0% and NMT 115.0% of the declared units of enzyme activity.\*

COUNTRY OF ORIGIN China

### STORAGE/SHELF LIFE/STANDARD PACK SIZE

Product is stable for two years (24 months) if stored at or below 10°C in sealed poly bags in boxes or drums away from sunlight and high humidity. Product is packed in 25 kilo fiber drums or double-wall boxes.

### HANDLING PRECAUTIONS

Avoid the formation of aerosol and dust of the product. Repeated inhalation of enzyme aerosol or dust may cause allergic type reactions in sensitized individuals. For detailed information please refer to the SDS.

| Description           | Specification          | Method                   |
|-----------------------|------------------------|--------------------------|
| Activity:             | NLT 1,000 USP/MG       | USP                      |
| Identity:             | Chymotrypsin (Porcine) | FTIR                     |
| Moisture:             | NMT 10%                | Ohaus MB-45              |
| Metals:               |                        |                          |
| Lead                  | NMT 5 ppm              | SW-846 6020              |
| Microbiological Data: |                        |                          |
| TPC                   | <10,000 CFU/g          | Soleris / AOAC 990.12    |
| E.coli                | Negative/10g           | Soleris / AOAC 991.14    |
| Entero                | <100 CFU/g             | AOAC 2003.01             |
| Salmonella**          | Negative/25g           | BAM Ch. 5 / AOAC 2011.03 |
| Yeast                 | <1,000 CFU/g           | Soleris / AOAC 997.02    |
| Mold                  | <1,000 CFU/g           | Soleris / AOAC 997.02    |
| Coliforms             | <100 CFU/g             | Soleris / AOAC 991.14    |

\*FCC 9 Page 414 \*\*If Entero test results exceed 100 CFU/g then Salmonella testing is completed.