

CHYMOTRYPSIN

What is Chymotrypsin?

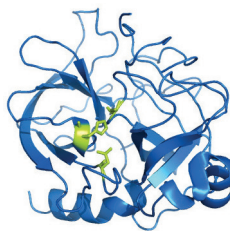
The chymotrypsins, of which there are several, are serine proteases derived from the inactive precursor Chymotrypsinogen-A (Alpha-Chymotrypsinogen) and B, which are present in the pancreas and pancreatic juice. Chymotrypsinogen-A is activated by Trypsin, and depending on the method of activation, the principle chymotrypsins may be obtained. These are referred to as Alpha, beta, gamma, delta and pi chymotrypsins.

Chymotrypsin specificity: hydrolysis of peptide bonds formed by hydrophobic amino acid residues such as Tyrosine, Phenylalanine and Tryptophan. It hydrolases tyrosyl, tryptophanyl, phenylalanyl peptides, amides and esters. Slow hydrolysis also occurs with aspartate, glutamine, histidine, leucine, lysine, methionine, serine and threonine.

Why choose BBI for your supply?

BBI Solutions (BBI) is a leading manufacturer of high quality chymotrypsin. Our team in Cape Town has manufactured chymotrypsin for over 40 years, under a quality system compliant with the latest ISO 13485:2016 standard requirements.

Using our expertise in bulk extraction and protein purification we achieve exceptional quality, making BBI the supplier of choice.



Product Analysis

Aspect	Description	Units	Limits	Result
Preparation	Bovine pancreas	N/A	N/A	N/A
Activity	Chymotrypsin	μKatal/mg	>5.0	5.8
	Trypsin	% m/m	<1	<1
Additional Data	pH in deionised H ₂ O (20mg/ml)	N/A	3.0-5.0	3.3
	Absorbance	281 nm	18.5 -22.5	19.3
	Absorbance	250 nm	≤8	7
	Opalescence	N/A	≤Soln II	Complies
	Loss of drying	%	≤5.0	1.1

Key Benefits

+ HIGH QUALITY MATERIAL

Well controlled processes to ensure the highest quality material from bovine material

+ BATCH-TO-BATCH REPRODUCIBILITY

Enabling consistent performance

+ EDQM CERTIFIED

We maintain a Certificate of Suitability for TSE/BSE Risk Management issued by the EDQM for materials derived from bovine raw material

+ BULK EXTRACTION CAPABILITY

We are able to offer large Kg level volumes to your exact product specification

+ SECURE SUPPLY

We have direct relationships in multiple territories with our raw material suppliers to ensure a secure supply chain

+ COST EFFECTIVE

Bovine Chymotrypsin offers a cost effective alternative to recombinant products

Order your evaluation sample today

Purity	031110BBI ≥ 5 μ katal/mg
Source	Bovine pancreas
Presentation	Whitish, amorphous powder

Stability	Stable for 3 years when stored in accordance with storage conditions.
------------------	---

FAQs

HOW IS CHYMOTRYPSIN PRODUCED?

Chymotrypsin is extracted from bovine pancreas and pancreatic juices and is purified by multiple precipitation, fractionation, filtration and crystallization steps.

ARE CUSTOMISED PRODUCT SPECIFICATIONS AVAILABLE?

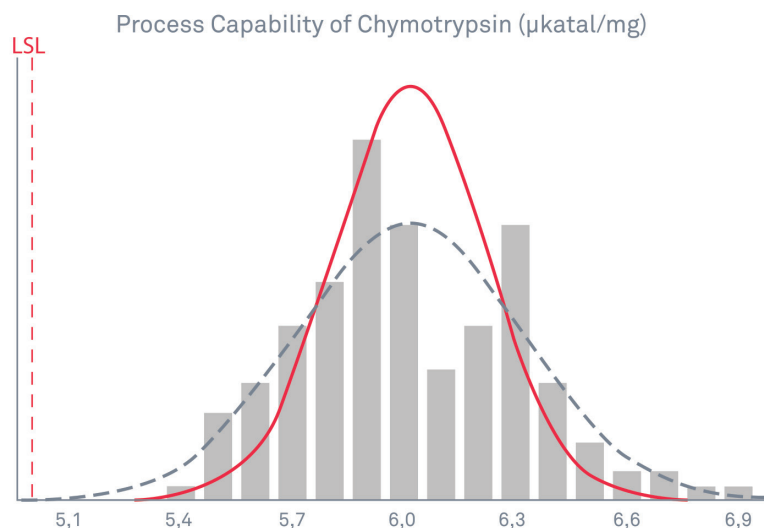
We will profile your requirements against our process capability to meet a specification suitable to your needs. If your product specification falls outside our process capability, the project will be handled by our R&D department.

HOW SHOULD THE MATERIAL BE STORED?

We recommend you store the material at freezer conditions (-10°C to -25°C).

Product Analysis

High quality final product produced with a high degree of batch-to-batch consistency:



Related Products

Application Area	Product Name	Code	Activity
Bulk Enzymes	Trypsin	201553BBI	> 2500 U/mg material
Bulk Enzymes	Ribonuclease	181515BBI	> 100 U/mg material
Bulk Enzymes	Deoxyribonuclease	041160BBI	> 2500 U/mg material
Bulk Enzymes	Trypsin:Chymotrypsin 1:1	161903BBI	>1000:>1000 U/mg material
Bulk Enzymes	Trypsin:Chymotrypsin 6:1	161905BBI	2200-2760:365-460 U/mg material

Order a sample today sales@bbisolutions.com
 Int: +44 (0) 1495 363000 USA: 1-207-797-5454 China: +860 216 104 2216