

# Certificate of Analysis

<b>Product:</b>	Bovine Chymotrypsin
<b>Catalog Number:</b>	IRHPL0093
<b>Lot Number:</b>	SAMPLE
<b>Size:</b>	100ug
<b>Purity:</b>	>90% (SDS-PAGE)
<b>Source:</b>	Bovine Pancreas
<b>Form:</b>	Lyophilized
<b>Storage:</b>	-20°C
<b>Expiration Date:</b>	Varies

**Description:** Bovine Chymotrypsin is a serine endopeptidase produced by the acinar cells of the pancreas. Chymotrypsin becomes activated after proteolysis of chymotrypsinogen by trypsin. While trypsin hydrolyzes at lysine and arginine, chymotrypsin selectively cleaves peptide bonds formed by aromatic residues (tyrosine, phenylalanine, and tryptophan) (Hedstrom et al.1992). Two predominant forms of chymotrypsin, A and B, are found in equal amounts in cattle pancreas. They are very similar proteins (80 identical), but have significantly different proteolytic characteristics (Hartley 1964, Melounet al.1966, Smillie et al.1968, and Grifet al.2004). The information below pertains primarily to the A form of chymotrypsinogen and chymotrypsin.

Optimal experimental conditions and working dilutions must be determined by the end user. Sample concentration and volume are for example purposes only and do not necessarily represent the product that will be received. Please contact us for a current lot-specific product datasheet.

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