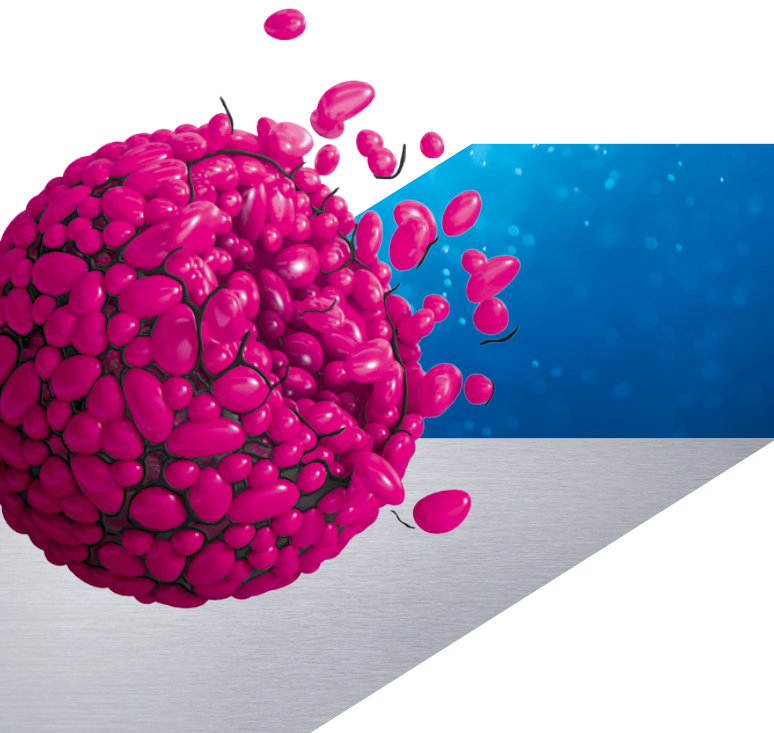


Liberase MTF C/T, GMP Grade

Leading results for human pancreatic islet cell isolation

Liberase MTF C/T is a highly purified blend of Collagenase I/II and Thermolysin, developed for pancreatic islet cell isolation procedures with both autologous and allogeneic applications. It was utilized in Clinical Islet Transplantation (CIT) study¹ and Integrated Islet Distribution Program.

¹ Clinical Islet Transplantation study. Purified human pancreatic islets master production batch record. Oct 2010. <http://www.isletstudy.org/CITDocs/SOP%203101,%20B01,%20MPBR%20v05,%20October%2028,%202010.pdf> (11 Apr 14).



- **Maximum cell yield, viability, and functionality**

Use of high-specific-activity blends with reduced clostripain, trypsin, and endotoxin content maximizes yield of viable, functional cells.

- **Reduced contamination risk**

Manufactured free of any mammalian- or avian-derived raw materials, avoiding the risk of transmission of animal diseases.

- **High experimental reproducibility**

High lot-to-lot consistency due to optimized enzyme fermentation and purification processes results in increased experimental reproducibility, ultimately saving time and resources.

- **Flexible enzyme portfolio**

Custom sizes and blends are available upon request to better serve your unique application needs.

- **Specific residual assay**

Highly sensitive assay developed specifically for detection of Liberase enzyme verifies removal from your final product.

Mammalian Tissue Free (MTF)

Roche Liberase enzyme blends are manufactured free of any mammalian- or avian-derived raw materials to avoid the risk of transmission of animal diseases.

Manufacturing expertise

Roche CustomBiotech utilizes a proprietary purification and blending process, resulting in highly purified enzymes with minimal lot-to-lot variability. In addition, our products exhibit nearly undetectable levels of endotoxin content, which leads to higher cell viability post purification and culturing.

Specifications

Liberase MTF C/T (2:3) GMP

Catalog number	05 339 880 001
Content	2x Collagenase I/II blend (500 mg) 3x Thermolysin (15 mg)
Appearance	white lyophilizate
Total protein: Collagenase Thermolysin	430 - 644 mg/vial 12 - 18 mg/vial
Activity (calculated): Collagenase (Wünsch) Thermolysin	2,172 - 3,613 U/vial 130,500 - 234,000 U/vial
Endotoxins (Collagenase)	<10 EU/mg
Bioburden (Collagenase)	<10 CFU/bottle
Stability	up to 24 months at -20°C

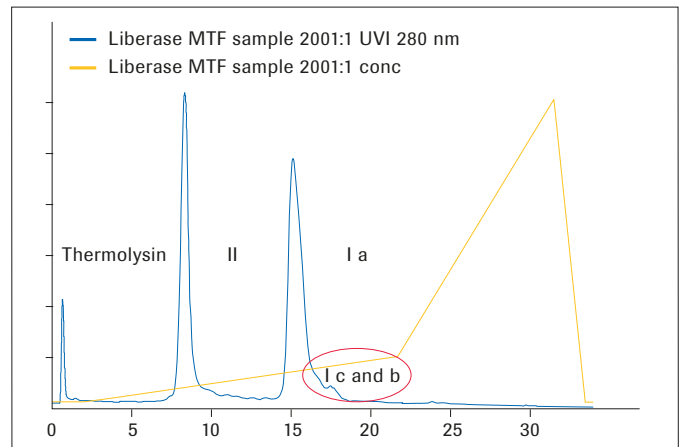


Figure 1: HPLC analysis of Liberase MTF blend (Mammalian Tissue Free) with Thermolysin shows only trace elements of Collagenase 1b + 1c (degradation products).

Ordering information

Related products

Related products	Pack size	Catalog number
Liberase T-Flex, Research Grade	500 mg	05 989 132 001
DNase I, recombinant, GMP Grade	4 kU	03 724 751 103
DNase I, recombinant	10 kU 510 kU	03 724 778 103 05 952 077 103
DNase I, recombinant, RNase-free	custom fill	03 539 121 103
Trypsin, recombinant, GMP Grade	1 g	06 369 880 103
Residual Protein Liberase Kit	kit for 96 reactions	07 758 693 001
Collagenase Activity Test	kit for 96 reactions	08 074 461 001
Residual Trypsin Test Kit	kit for 96 reactions	07 568 975 001

Regulatory disclaimer

For further processing only.

Intended use: Blended proteolytic enzyme for tissue dissociation.

Trademark

LIBERASE is a trademark of Roche. All other product names and trademarks are the property of their respective owners.

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