

Collagenase: Type I-VII, animal-free A-D, sterile filtered

Collagenases (Type 1-7, animal free A-D):

Partially purified Collagenases preparations from *Clostridium histolyticum* contain several isoforms of Collagenases as well as Sulfhydryl Protease, Clostripain, a trypsin-like enzyme, and an Aminopeptidase. This combination of collagenolytic and proteolytic activities is effective at breaking down intercellular matrices, the essential part of tissue dissociation.

Particular enzymatic profiles of each Collagenase have been correlated with the tissues from which the cells for study were obtained (or with the uses to which the cells are put). As a result of the correlations, several types of partially purified collagenases have been established: Types 1, 2, 3, 4, 5, 6 and 7.

Product	Specification	Activity	Code	Size	Cat.No.
Collagenase, Purified	Chromatographically purified. \leq 50 caseinase units per milligram. Lyophilized powder.	\geq 500 units per mg dry weight	CLSPA	4 ku* 10 ku* Bulk *Kunitz Units	LS005275 LS005273 Inquire
Collagenase Vial, NCIS	A component of the Neonatal Cardiomyocyte Isolation Kit (NCIS Kit) . 0.22-micron membrane filtered and lyophilized in autoclaved vials. A vial reconstituted with 5 ml of HBSS or equivalent yields a solution of 300 units/ml of Collagenase, Code: CLSPA. Suitable for cell isolation and culture applications.	\geq 1500 units per vial	CLSPANK	1 vial 5 vials	LK003240 LK003245
Collagenase, Type 1	The original balance of enzymatic activities. Each lot assayed for collagenase, caseinase, clostripain and tryptic activities. Suggested for epithelial, liver, lung and adrenal primary cell isolations. A dialyzed, lyophilized powder.	\geq 125 units per mg dry weight	CLS-1	100 mg 1 gm 5 gm Bulk	LS004194 LS004196 LS004197 Inquire
Collagenase, Type 2	Contains higher clostripain activity. Suggested for bone, heart, liver, thyroid and salivary primary cell isolation. Dialyzed, lyophilized powder.	\geq 125 units per mg dry weight	CLS-2	100 mg 1 gm 5 gm Bulk	LS004174 LS004176 LS004177 Inquire
Collagenase, Type 3	Lower in secondary proteolytic contaminant activities but with typical collagenase activity. Suggested for mammary primary cell isolation. A dialyzed, lyophilized powder.	\geq 100 units per mg dry weight	CLS-3	100 mg 1 gm 5 gm Bulk	LS004180 LS004182 LS004183 Inquire
Collagenase, Type 4	Contains lower tryptic activity levels to limit damage to membrane proteins and receptors but with normal to above normal collagenase activity. Suggested for pancreatic islet primary isolation. A dialyzed, lyophilized powder.	\geq 160 units per mg dry weight	CLS-4	100 mg 1 gm 5 gm Bulk	LS004186 LS004188 LS004189 Inquire
Collagenase, Type 5	Prepared to contain higher collagenase and caseinase activities. A dialyzed, lyophilized powder.	\geq 450 units per mg dry weight	CLS-5	100 mg 1 gm 5 gm Bulk	LS005280 LS005282 LS005283 Inquire
Collagenase, Type 6	Contains high collagenase activity with a caseinase to collagenase ratio ~2:1. Designed to be enriched for Type II (col H) collagenase relative to Type I (col G). A dialyzed, lyophilized powder.	\geq 400 units per mg dry weight	CLS-6	100 mg 500 mg 2.5 gm Bulk	LS005318 LS005319 LS005321 Inquire
Collagenase, Type 7	Prepared to contain collagenase and caseinase activities four-fold higher than collagenase Types 1 and 2. A dialyzed, lyophilized powder.	\geq 1,000 units per mg dry weight	CLS-7	100 mg 500 mg 2.5 gm Bulk	LS005332 LS005333 LS005335 Inquire



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Product	Specification	Activity	Code	Size	Cat.No.
Collagenase, Type 1, Filtered	Collagenase, Type 1 (Code: CLS-1), which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥125 units per mg dry weight	CLSS-1	50 mg 5 x 50 mg 1 gm	LS004214 LS004216 LS004217
Collagenase, Type 2, Filtered	Collagenase, Type 2 (Code: CLS-2), which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥125 units per mg dry weight	CLSS-2	50 mg 5 x 50 mg 1 gm	LS004202 LS004204 LS004205
Collagenase, Type 3, Filtered	Collagenase, Type 3 (Code: CLS-3), which is filtered through a 0.22-micron membrane and lyophilized in vials to contain ≥ 50 milligrams per vial.	≥100 units per mg dry weight	CLSS-3	50 mg 5 x 50 mg	LS004206 LS004208
Collagenase, Type 4, Filtered	Collagenase, Type 4 (Code: CLS-4), which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥160 units per mg dry weight	CLSS-4	50 mg 5 x 50 mg 1 gm	LS004210 LS004212 LS004209
Collagenase, Type 5, Filtered	Collagenase, Type 5 (Code: CLS-5), which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥450 units per mg dry weight	CLSS-5	50 mg 5 x 50 mg 1 gm	LS005286 LS005287 LS005288
Collagenase/Elastase Vial,	Collagenase/Elastase Vial, a component of the Hepatocyte Isolation System (HIS Kit) Collagenase (Code: CLS-1) and Elastase (Code: ESL), filtered through 0.22 µm pore size membrane, and lyophilized. A component of the HIS kit also contains 30 u/vial elastase.	≥20,000 units per vial	CLSH	1 vial 5 vials	LK002066 LK002067
STEMxyme®1, Collagenase/ Neutral Protease, 0.22 Filtered	A specialized combination of Animal Free Clostridium histolyticum Collagenase and Animal Free Bacillus polymyxa neutral protease with a minimum of 250 CLS units and 1,000 caseinase units per mg dry weight. Designed for stem cell and other primary cell isolations and bioprocessing applications where introduction of potential animal derived pathogens must be prevented.	≥250 collagenase units per mg dry weight ≥1,000 caseinase units per mg dry weight	STZ1	50 mg 5 x 50 mg	LS004106 LS004107
STEMxyme®2, Collagenase/ Neutral Protease, 0.22 Filtered	A specialized combination of Animal Free Clostridium histolyticum Collagenase and Animal Free Bacillus polymyxa neutral protease with a minimum of 250 CLS units and 2,000 caseinase units per mg dry weight. Designed for stem cell and other primary cell isolations and bioprocessing applications where introduction of potential animal derived pathogens must be prevented.	≥250 collagenase units per mg dry weight ≥2,000 caseinase units per mg dry weight	STZ2	50 mg 5 x 50 mg	LS004112 LS004113
Collagenase, Purified, Animal free	Collagenase, Animal Free . Prepared from cultures grown in medium completely devoid of animal-based components and designed for bioprocessing applications where introduction of animal derived pathogens must be prevented. Chromatographically purified. ≤ 50 caseinase units per milligram. Supplied as a lyophilized powder.	≥1,500 units per mg dry weight	CLSAFP	4 ku* 10 ku*	LS005290 LS005292

*Kunitz Units



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Product	Specification	Activity	Code	Size	Cat.No.
Collagenase, Type A	Collagenase derived from cultures grown in Animal Free medium. Suitable for applications needing to avoid introduction of potential animal derived pathogens into bioprocessing procedures.	≥ 150 units per mg dry weight	CLSAFA	100 mg 1 gm 5 gm Bulk	LS004152 LS004154 LS004156 Inquire
Collagenase, Type A, 0.22 Filtered	Collagenase, Animal Free which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥ 150 units per mg dry weight	CLSAFAS	50 mg 5 x 50 mg	LS004118 LS004119
Collagenase, Type B	Collagenase, Animal Free . Prepared from cultures grown in medium completely devoid of animal-based components and designed for bioprocessing applications where introduction of animal derived pathogens must be prevented.	≥ 300 units per mg dry weight	CLSAFB	100 mg 1 gm 5 gm Bulk	LS004145 LS004147 LS004148 Inquire
Collagenase, Type B, 0.22 Filtered	Collagenase, Animal Free , which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥ 300 units per mg dry weight	CLSAFBS	50 mg 5 x 50 mg	LS004124 LS004125
Collagenase, Type C	Collagenase, Animal Free . Prepared from cultures grown in medium completely devoid of animal-based components and designed for bioprocessing applications where introduction of animal derived pathogens must be prevented.	≥ 200 units per mg dry weight	CLSAFC	100 mg 1 gm 5 gm Bulk	LS004138 LS004140 LS004141 Inquire
Collagenase, Type C, 0.22 Filtered	Collagenase, Animal Free which is filtered through a 0.22-micron membrane and lyophilized in vials.	≥ 200 units per mg dry weight	CLSAFCS	50 mg 5 x 50 mg	LS004130 LS004131
Collagenase, Type D	Collagenase, Animal Free . Prepared from cultures grown in medium completely devoid of animal-based components and designed for bioprocessing applications where introduction of animal derived pathogens must be prevented.		CSLAFD	100 mg 500 mg 2500 mg	LS004160 LS004162 LS004163
Cell Isolation Optimizing System	Kit Components • Collagenase Type 1 CLS1 • Hyaluronidase HSE • Collagenase Type 2 CLS2 • Elastase ESL • Collagenase Type 3 CLS3 • Papain PAPL • Collagenase Type 4 CLS4 • Deoxyribonuclease I DP • Trypsin TRL • Trypsin Inhibitor SIC • Neutral Protease (Dispase) NPRO		CIT	Kit 500mg dw 50,000 un 500mg dw 100mg P 500mg dw 100mg P 500mg dw 25mg dw 500mg dw 100mg dw 10mg dw	LK003200



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