

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. ≤ 50 caseinase units per milligram. Lyophilized powder.	≥500 units per mg dry weight	CLSPA	4 ku* 10 ku* Bulk *Kunitz Units	<u>LS005275</u> <u>LS005273</u> <u>Inquire</u>
Collagenase Vial, NCIS	A component of the <u>Neonatal</u> <u>Cardiomyocyte Isolation Kit (NCIS Kit)</u> . 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.	≥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.	≥125 units per mg dry weight	CLS-1	100 mg 1 gm 5 gm Bulk	<u>LS004194</u> <u>LS004196</u> <u>LS004197</u> <u>Inquire</u>
Collagenase, Type 2	Contains higher clostripain activity. Suggested for bone, heart, liver, thyroid and salivary primary cell isolation. Dialyzed, lyophilized powder.	≥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.	≥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.	≥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.	≥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.	≥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 dialyized, lyophilized powder.	≥1,000 units per mg dry weight	CLS-7	100 mg 500 mg 2.5 gm Bulk	<u>LS005332</u> <u>LS005333</u> <u>LS005335</u> <u>Inquire</u>



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Product	Specification	Activity	Code	Size	Cat.No.
Collagenase, Type 1,	Collagenase, Type 1 (Code: CLS-1),	≥125 units	CLSS-1	50 mg	LS004214
Filtered	which is filtered through a 0.22-micron	per mg dry		5 x 50 mg	LS004216
	membrane and lyophilized in vials.	weight		1 gm	LS004217
Collagenase, Type 2,	Collagenase, Type 2 (Code: CLS-2),	≥125 units	CLSS-2	50 mg	LS004202
Filtered	which is filtered through a 0.22-micron	per mg dry		5 x 50 mg	LS004204
	membrane and lyophilized in vials.	weight		1 gm	LS004205
Collagenase, Type 3,	Collagenase, Type 3 (Code: CLS-3),	≥100 units	CLSS-3	50 mg	LS004206
Filtered	which is filtered through a 0.22-micron	per mg dry		5 x 50 mg	LS004208
	membrane and lyophilized in vials to	weight			
	contain \geq 50 milligrams per vial.	_			
Collagenase, Type 4,	Collagenase, Type 4 (Code: CLS-4),	≥160 units	CLSS-4	50 mg	LS004210
Filtered	which is filtered through a 0.22-micron	per mg dry		5 x 50 mg	LS004212
	membrane and lyophilized in vials.	weight		1 gm	LS004209
Collagenase, Type 5,	Collagenase, Type 5 (Code: CLS-5),	≥450 units	CLSS-5	50 mg	LS005286
Filtered	which is filtered through a 0.22-micron	per mg dry	0200 0	5 x 50 mg	LS005287
T Intered	membrane and lyophilized in vials.	weight		1 gm	LS005288
Collagenase/Elastase	Collagenase/Elastase Vial, a	≥20,000 units	CLSH	1 vial	LK002066
Vial,	component of the <u>Hepatocyte</u>	per vial	GLOIT	5 vials	LK002000
vici,	Isolation System (HIS Kit)				<u></u>
	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.				
STEMxyme®1,	A specialized combination of Animal	≥250	STZ1	50 mg	<u>LS004106</u>
Collagenase/ Neutral	Free Clostridium histolyticum	collagenase		5 x 50 mg	<u>LS004107</u>
Protease, 0.22	Collagenase and Animal Free Bacillus	units per mg			
Filtered	polymyxa neutral protease with a	dry weight			
	minimum of 250 CLS units and 1,000	≥1,000			
	caseinase units per mg dry weight.	caseinase			
	Designed for stem cell and other	units per mg dry weight			
	primary cell isolations and	ary weight			
	bioprocessing applications where				
	introduction of potential animal				
	derived pathogens must be prevented.				
STEMxyme®2,	A specialized combination of Animal	≥250	STZ2	50 mg	LS004112
Collagenase/ Neutral	Free Clostridium histolyticum	collagenase		5 x 50 mg	LS004113
Protease, 0.22	Collagenase and Animal Free Bacillus	units per mg			
Filtered	polymyxa neutral protease with a	dry weight			
	minimum of 250 CLS units and 2,000	≥2,000			
	caseinase units per mg dry weight.	caseinase			
	Designed for stem cell and other	units per mg dry weight			
	primary cell isolations and	ury weight			
	bioprocessing applications where				
	introduction of potential animal				
	derived pathogens must be prevented.				
Collagenase, Purified,	Collagenase, Animal Free. Prepared	≥1,500 units	CLSAFP	4 ku*	LS005290
Animal free	from cultures grown in medium	per mg dry		10 ku*	LS005292
	completely devoid of animal-based	weight			
	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.			*Kunitz Units	
			<u> </u>	Romitz Offico	

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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	<u>LS004118</u> <u>LS004119</u>
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	<u>LS004124</u> 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	<u>LS004130</u> 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.	≥ 600 units per mg dry weight	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 25mg dw 500mg dw 100mg dw 100mg dw 100mg dw	<u>LK003200</u>



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