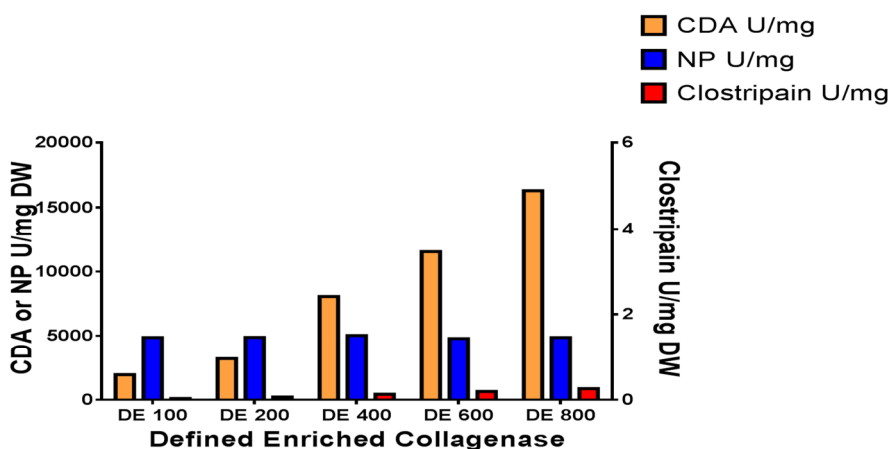


# DE Collagenase

## Changing the paradigm.

VitaCyte's defined enriched (DE) collagenase products offer a new standard of versatility in optimizing cell isolations. Enriched collagenase is blended with purified neutral protease at defined activities to provide a broad spectrum of products with distinct collagenase<sup>2,3</sup> to neutral protease<sup>1</sup> activities. This design feature simplifies selection of an optimum ratio of critical enzyme activities for each cell isolation application. This manufacturing process minimizes enzyme variability enabling consistent control of cell isolations.



Each DE product contains a fixed amount of protease activity (NP U<sup>1</sup>), low clostripain activity<sup>4</sup>, and increasing amounts of collagenase activity defined by a functional collagen degradation activity (CDA U) that correlates with the biochemical form of the enzyme<sup>2</sup>. The target collagenase:protease activity ratios enables efficient exploration of a broad range of formulations.

### The three Cs of DE Collagenase:

CONSISTENT	CONVENIENT	COST EFFECTIVE
<ul style="list-style-type: none"> <li>Fixed amount of purified protease</li> <li>Low clostripain contamination</li> <li>Removal of the majority of contaminants in crude collagenase</li> </ul>	<ul style="list-style-type: none"> <li>Weigh out what you need or reconstitute and use entire bottle</li> <li>Rapid dissolution, no clogged filters, no need for pre-centrifugation</li> <li>Stable for 2 years at +4°C storage, 4 years at &lt; -20°C</li> </ul>	<ul style="list-style-type: none"> <li>Increase productivity, minimize need for lot testing</li> <li>Purchase of large quantities of “good” lots of collagenase avoided</li> <li>Easily migrate to purified enzyme products based on enzyme activity analysis of DE Collagenase</li> </ul>



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 (P) +49 89 517 286 59-0 | (F) +49 89 517 286 59-88  
 info@pelobiotech.com | www.pelobiotech.com

# Ask for DE Collagenase.

The products below are defined by the total Wünsch activity<sup>3</sup> per bottle, an assay that uses a peptide substrate to measure the activity of the collagenase catalytic domain. This activity does not provide functional assessment of collagenase activity<sup>5</sup> but it is one of the most consistent and reliable activity measures used by many collagenase suppliers. The Table below provides ordering information and a cross reference chart to indicate which DE Collagenase product may meet your needs.

The Collagenase Gold product is similar to the DE Collagenase 800 but does not contain any supplemental purified protease. This product enables users to use other proteases or to purchase from VitaCyte the same protease used in the DE Collagenase products (BP Protease, catalog # 003-1000) for creation of a custom mixture.

## Cross Reference to Other Products/Pricing

PRODUCT	CATALOG #	PRICE PER BOTTLE	CROSS REFERENCE
DE Collagenase 100	011-1010	1 g	Worthington Type 1 or 2
DE Collagenase 10	011-1110	100 mg	Liberase TM or DH, Blendzyme 1 or 2
DE Collagenase 200	011-1020	1 g	Sigma Type I,II, IV, V, or XI
DE Collagenase 20	011-1120	100 mg	
DE Collagenase 400	011-1030	1 g	Sigma Type I,II, IV, V, or XI
DE Collagenase 40	011-1130	100 mg	
DE Collagenase 600	011-1040	1 g	Sigma Type I,II, IV, V, or XI
DE Collagenase 60	011-1140	100 mg	
DE Collagenase 800	011-1050	1 g	Liberase TL, Liberase DL
DE Collagenase 80	011-1150	100 mg	Liberase HI
Collagenase Gold 800	011-1060	1 g	
Collagenase Gold 80	011-1160	100 mg	

## To Order:

- send order via email to [orders@vitacyte.com](mailto:orders@vitacyte.com)
- fax an approved purchase order to 317.917.3459
- call 888.664.2687 Monday through Friday, 8:30 AM – 5:30 PM ES

All orders received before 3:00 PM EST Monday – Thursday will be shipped on dry ice via FedEx for next-day delivery..

For more information on specific applications contact technical service at 888.664.2687 between 8:30 AM and 5:30 PM EST.

## References

1. Breite AG, et al. *Transplantation Proceedings* 42 (2010); 2052-2054.
2. McCarthy RC, et al. *Transplant Proc* 40 (2008); 339-342.
3. Wünsch E and Hedrich H-G. *Hoppe-Seyler's Zeitschrift Physiol Chemie* 333 (1963);149-151.
4. Mitchell WM and Harrington WF. *Methods in Enzymology* (1970) 635-642.
5. McCarthy RC, et al. *Transplant* 91 (2011) 137-145.

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