



**SIGMA-ALDRICH**

3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### **COLLAGENASE (EC 3.4.24.3) From *Clostridium histolyticum***

Product No. **C9263**

Lot 124H6868

#### **Enzymatic Activities**

	<b>units/mg</b>
<b>solid</b>	
Collagenase (FALGPA hydrolysis)	1.1
Collagenase (Collagen digestion)	308
Neutral Protease (Caseinase)	49
Clostripain	0.58

#### **Unit Definitions**

Collagenase (FALGPA hydrolysis)-One unit hydrolyzes 1.0 micromole of FALGPA (furylacryloyl-Leu-Gly-Pro-Ala, F5135) per minute at 25°C at pH 7.5 in the presence of calcium ions.

Collagenase (collagen digestion)-One unit liberates peptides from collagen (C9879) equivalent in ninhydrin color to 1.0 micromole of leucine in 5 hours at pH 7.4

at 37°C in the presence of calcium ions.

Neutral protease (caseinase)-One unit hydrolyzes casein to produce color equivalent to 1.0 micromole of tyrosine in 5 hours at pH 7.5 at 37°C (color by Folin-Ciocalteu reagent).

Clostripain-One unit hydrolyzes 1.0 micromole of N<sup>a</sup>-benzoyl-L-arginine ethyl ester (BAEE) per minute at pH 7.6 at 25°C in the presence of dithiothreitol.

This lot is suitable for preparation of islets from rat pancreas by a modification of the method of Lacy and Kostianovsky, *Diabetes* **16**, 35 (1967).

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