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

ProductInformation

COLLAGENASE (EC 3.4.24.3)
from *Clostridium histolyticum*

Product No. **C 1764**
Lot 16H6837

Enzymatic Activities

	units/mg solid
Collagenase (FALGPA hydrolysis)	0.99
Collagenase (Collagen digestion)	364
Neutral Protease (Caseinase)	76
Clostripain	0.54

Unit Definitions

Collagenase (FALGPA hydrolysis)-One unit hydrolyzes 1.0 micromole of FALGPA (furylacryloyl-Leu-Gly-Pro-Ala, F 5135) per minute at 25 °C at pH 7.5 in the presence of calcium ions.

Collagenase (collagen digestion)-One unit liberates peptides from collagen (C 9879) 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 tyrosine in 5 hours at pH 7.5 at 37 °C (color by Folin-Ciocalteau reagent).

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

Cell Release

This lot is suitable for preparation of adipocytes from epididymal fat pads of the rat. See Rodbell, J. Biol. Chem. **239,** 375 (1964). Adipocytes prepared by this method were tested for sensitivity to insulin.

Stimulation of glucose oxidation in the presence of insulin: 2 fold.

Sterility

This lot pases the requirements of the test for sterility (USP XXII, pp 1483-1488, 1990).

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