

COLLAGENASE ACTIVITY UNITS

Wuensch vs. Falgpa vs. Mandl

PZ units according to Wuensch

1 Unit catalyzes the hydrolysis of 1 μmol 4-phenyl-azobenzyloxycarbonyl-L-prolyl-L-leucyl-glycyl-L-prolyl-D-arginine per minute at 25 °C, pH 7.1.

Collagenase Degrading Units (CDU) according to Mandl

1 Unit liberates peptides from collagen from bovine achilles tendon equivalent in ninhydrin color to 1.0 μmol of leucine in 5 hours at pH 7.4 at 37 °C in the presence of calcium ions.

1000 U/mg CDU ~ 1 PZ U/mg

FALGPA units

1 unit hydrolyzes 1.0 μmol of furylacryloyl-Leu-Gly-Pro-Ala per min at 25°C.

3.9 U/mg FALGPA ~ 1 PZ U/mg