

## DATASHEET

Cat.No. 17455

# Collagenase NB 1 Premium Grade

EC 3.4.24.3

<b>Origin</b>	<i>Clostridium histolyticum</i>	
<b>Composition</b>	Collagenase <sup>1</sup> class I and class II	
<b>Molecular weight</b>	70 – 120 kDa (collagenases)	
<b>Characters</b>	White to almost white, 0.2 µm filtered, chromatographically highly purified, lyophilisate	
<b>Protein content</b>	Lowry assay	approx. 95%
<b>Activities</b>	Collagenase (PZ activity <sup>2</sup> , 25°C)	≥ 3.000 U/mg lyophilisate
	Collagenase (PZ activity <sup>2</sup> , 25°C)	≥ 2000 U/Vial
	Neutral Protease (DMC assay <sup>3</sup> )	≤ 0.050 U/mg lyophilisate
	Trypsin-like activities (BAEE assay)	Status
<b>Bacterial endotoxins</b>	LAL assay	≤ 10.0 EU/mg lyophilisate
<b>Long term storage</b>	+2 to +8°C	

### Unit definition

#### Collagenase (PZ activity according to Wünsch<sup>2</sup>)

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

<sup>1</sup> Bond, M.D., van Wart, H.E.; *Biochemistry*, **23**, 3077-91 (1984).

<sup>2</sup> Wünsch, E., Heidrich, H.G.; *Hoppe-Seyler's Zeit. Physiol. Chem.*, **333**, 149-51 (1963).

<sup>3</sup> Lin, Y. et al.; *J. Biol. Chem.* **244**, 789-93 (1969).