

## DATASHEET

Cat.No. 17458

# Collagenase NB 6 GMP 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 as well as a balanced ratio of proteolytic activities such as Clostripain (EC 3.4.22.8), Trypsin-like activities and Neutral Protease	
<b>Molecular weight</b>	70 – 120 kDa (collagenases)	
<b>Special features</b>	Sterile product (manufactured under aseptic conditions); Manufactured according to international cGMP guidelines	
<b>Characters</b>	Light brown fine powder, lyophilisate	
<b>Protein content</b>	Lowry assay	approx. 85%
<b>Identification</b>	SDS-PAGE	Pattern of main bands must comply
<b>Test</b>	Loss on drying	4 to 10% (w/w)
<b>Microbiological examination</b>	Sterility (Pharm. Eur.)	Must comply
	Absence of <i>Clostridia</i>	Must comply
	Abnormal toxicity (General-Safety-Test; Pharm. Eur.)	Must comply
<b>Activity</b>	Collagenase (PZ activity <sup>2</sup> , 25 °C)	≥ 0.1 U/mg lyophilisate
<b>Long term storage</b>	+2 to +8 °C	
<b>Long term stability data</b>	5 °C ± 3 °C	5 years (after manufacture)

### 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).