

DATASHEET

Cat.No. 17459

Collagenase NB 5 Sterile Grade

EC 3.4.24.3

Origin	<i>Clostridium histolyticum</i>	
Composition	Collagenase ¹ 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	
Molecular weight	70 – 120 kDa (collagenases)	
Special features	Sterile product (manufactured under aseptic conditions)	
Characters	Light brown fine powder, lyophilisate	
Protein content	Lowry assay	approx. 85%
Identification	SDS-PAGE	Pattern of main bands must comply
Test	Loss on drying	4 to 10% (w/w)
Microbiological examination	Sterility (Pharm. Eur.)	Must comply
	Absence of <i>Clostridia</i>	Must comply
	Abnormal toxicity (General-Safety-Test; Pharm. Eur.)	Must comply
Activity	Collagenase (PZ activity ² , 25°C)	≥ 0.1 U/mg lyophilisate
Long term storage	+2 to +8°C	

Unit definition

Collagenase (PZ activity according to Wünsch²)

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.

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

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