

Analysenzertifikat Certificate of Analysis

Collagenase Typ IV	Kat. Nr.: / Cat. No.:	C4310
Collagenase Type IV	Lot / Contr. No.:	N18247

Source: Clostridium histolyticum

All products from animal sources are produced from starting material of USDA-approved origin, collected in United States Department of Agriculture (USDA)-approved origin or equivalent approved facilities, inspected to be free of disease and suitable for exportation.

Description:

Prepared to contain lower tryptic activity levels to limit damage to membrane proteins and receptors but with normal to above normal collagenase activity. Suggested for pancreatic islet primary isolation.

Parameter Parameter	Methode Method	Spezifikation Specification	Ergebnis Result
Aussehen: Appearance:		beiges Pulver beige, fluffy powder	entspricht corresponds
Formulierung: Formulation:		chromatographisch gereinigtes, lyophilisiertes Pulver chromatographically purified, lyophilized powder	entspricht corresponds
Aktivität:	units/mg Trockengewicht units/mg Trockengewicht Neutrale Proteasen (DMC) units/mg Trockengewicht tryptisch (BAEE)	>900 units * <200 units <500 units	1170 units * 240 units 40 units
Aktivität:	units/mg dry weight units/mg dry weight neutral protease (DMC) units/mg dry weight tryptic (BAEE)	>900 units * <200 units <500 units	1170 units * 240 units 40 units
Proteingehalt: Protein content:	Lowry Assay	ca. 50% approx. 50%	entspricht corresponds
Endotoxin:	IU/mg im Trockengewicht IU/mg dry weight	<100 IU/mg	<6,6 IU/mg <6.6 IU/mg
Molekulargewicht: Molecular weight:		70000 – 120000 Da	
CAS-Nummer: CAS number:		9001-12-1	
Nächste QC: Next retest:		05/2025	

*** Unit definitions:**
Collagenase (PZ activity according to Wunsch – see activities given above)

1 unit catalyzes the hydrolysis of 1µmol 4-phenyl-azobenzoyloxycarbonyl-L-propyl-L-leucyl-glycyl-L-prolyl-D-arginine per minute at 25°C, pH7.1.

Neutral Protease (DMC assay)

1 DMC-Unit catalyzes the cleavage of 1µmol peptide bond from dimethylcasein per minute at 25°C, pH7.0, expressed in terms of newly formed terminal amino groups, determined with trinitrobenzene sulfonic acid (TNBS).

Trypsin-like activity (BAEE assay)

1 unit catalyzes the cleavage of 1µmol BAEE per minute at 25°C, pH8.0. Enzyme dissolved in 1mM HCl.

Endotoxin (LAL assay)

1 endotoxin unit is equal to 1 International Unit (IU) of a FDA reference standard Endotoxin (RSE).

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Shipment: not cooled. / Store at +2°C to +8°C.

Versand: nicht gekühlt. / Lagerung bei +2°C bis +8°C.

Safety Data: Not hazardous / nicht gefährlich.

Usage

For research usage only!

Not for human or animal diagnostic or therapeutic usage/applications. Not for consumption.

Verwendung

Nur für Forschungszwecke!

Nicht für human- oder tierdiagnostische oder therapeutische Zwecke/Anwendungen. Nicht zum Verzehr zugelassen.

Die Eignung des Produktes für spezielle Anwendungszwecke wird nicht zugesichert.
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Genaxxon bioscience GmbH

Datum/date: 19.09.2023

Dr. Norbert Tröndle