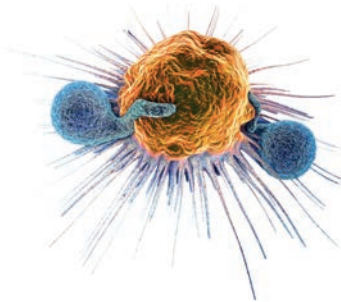


New Product

We listened to You!

Specially designed animal-free GMP Collagenase for Tumor Cells, TILs, SVF & More



Cancer cell attacked by lymphocytes

- **Highly Purified Collagenase**

Extremely low endotoxins

- **Exceptionally Safe**

No risk of TSE & animal pathogens

- **For Sensitive Cells**

Keeps cell surface proteins intact

Clostridium on a Veggie Diet

For **Collagenase AF-1 GMP Grade** (≥ 150 U),

Nordmark has developed a process that keeps *Clostridium histolyticum* on a veggie diet in order to avoid any cross-contamination with animal-derived material. By excluding the entry of any pathogen, Collagenase AF-1 GMP Grade is perfectly designed for clinical applications.

Regulatory requirements for ancillary materials have increased the demand for **safe, sustainable and high-quality GMP** products. Nordmark's animal-free product line meets those demands and continues to expand with the latest product, Collagenase AF-1 GMP Grade (≥ 150 PZ U).

Collagenase AF-1 GMP Grade is very **sensitive to cells** and **keeps surface receptors intact**. This makes it an excellent fit for tumor cell isolation and digestion of adipose tissue. Additional enzymatic activities are often necessary to break the cell bonds. For this instance, Collagenase AF-1 can be individually dosed together with Neutral Protease AF GMP Grade.



New Product

Product Information

Enzyme	Collagenase AF-1 GMP Grade	
Origin	<i>Clostridium histolyticum</i>	
Composition	Collagenase class I and class II, 70 – 120 kDa (collagenases)	
Special features	Manufactured free from animal components & according to international GMP guidelines	
Character	White to off-white, 0.2 µm filtered, chromatographically highly purified, lyophilisate	
Protein content	Lowry assay	> 95 %
Identification	SDS-PAGE	Position of main bands must comply
Test	Water	≤ 15 % (w/w)
Microbiological examination	TAMC (Total Aerobic Microbial Count)	≤ 10/Vial
	TYMC (Total Yeasts/Moulds Count)	≤ 10/Vial
	Absence of Clostridia	Must comply
Activities	Collagenase (PZ activity according to Wunsch, 25 °C)	≥ 150 PZ U/Vial
	Collagenase (PZ activity according to Wunsch, 25 °C)	≥ 3.000 U/mg lyophilisate
	Neutral Protease (DMC assay)	≤ 0.050 U/mg lyophilisate
	Clostripain, native state (BAEE assay)	Status
Bacterial endotoxins	LAL assay	≤ 10.0 EU/mg lyophilisate
Long term stability data	5 °C ± 3 °C	
	2 years (after manufacture)*	

* ongoing ICH study

Ordering Information

Enzyme	Cat. No.	Pack Size
Collagenase AF-1 GMP Grade	N0003855	≥ 150 PZ U
	N0003554	≥ 2000 PZ U
Neutral Protease AF GMP Grade	N0003553	≥ 100 DMC U



For information and samples please contact the Nordmark Biochemicals Team

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Ordering

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