

Application Note

Isolation of human acinar cells with Collagenase NB 8 Broad Range

Product information Collagenase NB 8 Broad Range

Collagenase NB 8 Broad Range is designed for dissociation of different tissues to isolate various cell types, e.g. human acinar cells.

Purified Collagenase NB 8 Broad Range is characterized by an increased collagenase activity and reduced levels of other proteases and bacterial endotoxins.

Specification

Collagenase activity	≥ 0.9 U/mg (PZ*)
Neutral protease activity	≤ 0.2 U/mg (DMC)
Trypsin-like activities	≤ 0.5 U/mg (BAEE)
Endotoxin	≤ 100 EU/mg

The activity of the Collagenase NB 8 Broad Range is stated on the certificate of analysis which is attached to every consignment.

Storage conditions

Collagenase NB 8 Broad Range is provided as a lyophilized powder and should be stored in a dry state at +2 to +8 °C.

Stock solutions can be filtered sterile and stored at -20 °C for 1 year without loss of activity.

Order information

Enzyme	Cat. No.	Pack size
Collagenase NB 8 Broad Range	17456.01	250 mg
Collagenase NB 8 Broad Range	17456.02	1 g

*PZ units acc. to Wunsch

Isolation of acinar cells from human pancreas

Concentration of Collagenase NB 8 Broad Range	0.05 – 0.1 PZ U/ml
Isolation Conditions	1 h, 37 °C

In general the required collagenase concentration depends on tissue type and origin as well as isolation procedure. Therefore Collagenase NB concentrations stated above should be considered as starting points and progress of the digestion process should be monitored visually in order to determine the optimal conditions.

The digestion process can be stopped by adding EDTA, cooling down or diluting the digestion solution.

It is recommended to measure the concentration of the collagenase solution in PZ U/ml and not in mg/ml.

This ensures optimal reproducibility of isolations with collagenases from different batches, although SERVA guarantees a high lot-to-lot consistency.

SERVA Collagenase NB Qualities

- High cell yields and viability
- Reliable lot-to-lot consistency
- GMP Grade available