

Application Note

Isolation of Rodent Schwann Cells with Collagenase NB 4 Standard Grade

Product Information Collagenase NB 4 Standard Grade

Collagenase NB 4 Standard Grade

is designed for dissociation of different tissues to isolate various cell types, e.g. rodent Schwann cells from sciatic or peripheral nerves. A balanced ratio of collagenase and other proteases guarantees a high yield of viable cells.

Specification

Collagenase activity: ≥ 0.1 U/mg (PZ*)

*PZ units acc. to Wunsch

The lot-specific activity of Collagenase NB 4 Standard Grade is stated on the certificate of analysis which is attached to every delivery.

Storage Conditions

Collagenase NB 4 Standard Grade is provided as a lyophilized powder and should be stored in a dry environment at +2 to +8 °C.

Stock solutions can be 0.2 µm filtered and stored at -20 °C for 1 year without loss of activity.

Clinical Application

Collagenase NB 4 Standard Grade can be replaced by Collagenase NB 6 GMP Grade (Cat.No. N0002779) which shows comparable enzymatic properties but is produced according to GMP guidelines.

Ordering Information

Enzyme	Cat. No.	Pack Size
Collagenase NB 4 Standard Grade	S1745402	500 mg
Collagenase NB 4 Standard Grade	S1745401	1 g
Collagenase NB 4 Standard Grade	S1745403	

Isolation of Rodent Schwann Cells from Sciatic or Peripheral Nerves

Recommended Starting Conditions

Concentration of Collagenase NB 4 Standard Grade	0.2 – 0.3 PZ* U/ml
Isolation conditions	1 – 3 h, 37 °C

*PZ units acc. to Wunsch

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 lots, although Nordmark Biochemicals guarantees a high lot-to-lot consistency.

Collagenase NB products

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

AMS BIO | www.amsbio.com | info@amsbio.com

 **UK & Rest of the World**
 184 Park Drive, Milton Park
 Abingdon OX14 4SE, U.K.
 T: +44 (0) 1235 828 200
 F: +44 (0) 1235 820 482

 **North America**
 1035 Cambridge Street,
 Cambridge, MA 02141.
 T: +1 (617) 945-5033 or
 T: +1 (800) 987-0985
 F: +1 (617) 945-8218

 **Germany**
 Bockenheimer Landstr. 17/19
 60325 Frankfurt/Main
 T: +49 (0) 69 779099
 F: +49 (0) 69 13376880

 **Switzerland**
 Via Lisano 3
 (CP.683)
 6900 Massagno
 T: +41 (0) 91 604 55 22
 F: +41 (0) 91 605 17 85