

## CHONDROCYTES



### ISOLATION OF CHONDROCYTES WITH COLLAGENASE NB

In the following, application details for isolation of chondrocytes from murine, bovine and human cartilage are presented.

Species	Enzyme	Conditions	
Bovine	Collagenase NB 4	0.2-0.3 PZ U/ml, 14-16 h, 37 °C	
Human*	Collagenase NB 4	0.3-0.4 PZ U/ml, 4-16 h, 37 °C	
Mouse (newborn)	Neutral Protease NB Collagenase NB 4	Consecutive digestion steps: 0.5-1 DMC U/ml (NP), 15-20 min, 37 °C 0.3 PZ U/ml (NB 4), 30-45 min, 37 °C	

#### Clinical Applications\*\*

Species	Enzyme	Conditions	
Human*	Collagenase NB 6	0.3-0.4 PZ U/ml, 4-16 h, 37 °C	

\*For further information on GMP grade Collagenase NB please [contact us!](#)

**Collagenase NB 4 Standard Grade (cat. no. S1745401)** has a collagenase activity of  $\geq 0.1$  PZ U/mg and a balanced mix of proteolytic side activities.

**Collagenase NB 6 GMP Grade (cat. no. N0002779)** has a collagenase activity of  $\geq 0.1$  PZ U/mg and a balanced mix of proteolytic side activities. It is manufactured according to GMP guidelines and sterile according to European Pharmacopoeia.

**Neutral Protease NB (cat. no. S3030111)** is a protease from *C. histolyticum*. It has a proteolytic activity of  $\geq 0.50$  DMC U/mg.

#### Isolation conditions

The suggested Collagenase NB concentrations and isolation conditions should be regarded as starting points. Collagenase NB dosage is recommended in PZ units to ensure consistent results.

For further information on optimization of tissue digestion please contact us at (631) 348-0333 or [collagenase@crescentchemical.com](mailto:collagenase@crescentchemical.com) or our website [www.crescentchemical.com](http://www.crescentchemical.com).

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