

## OSTEOBLASTS



### ISOLATION OF OSTEOBLASTS WITH COLLAGENASE NB

In the following, application details for isolation of osteoblasts from murine and human bone tissue are presented.

Species	Enzymes	Conditions	
Human*	Collagenase NB 8, Neutral Protease NB	1.5-2 PZ U/ml (NB 8), 0.25 DMC U/ml (NP), 2-4 h , 37 °C	
Mouse	Collagenase NB 4	0.15-0.25 PZ U/ml, 5-10 min, 37 °C**	

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

\*\* 4-5 consecutive digestion steps are recommended

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

**Collagenase NB 8 Broad Range (cat. no. S1745601)** is characterized by a high collagenase activity ( $\geq 0.9$  PZ U/mg) and reduced levels of proteolytic side activities.

**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 visit us at [www.crescentchemical.com](http://www.crescentchemical.com).

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