

## ISOLATION OF STEM CELLS WITH COLLAGENASE NB

In the following, application details for isolation of stem cells from human Wharton's jelly and human or murine adipose tissue are presented.

**Adipose tissue:**

Species	Enzyme	Conditions
Human	Collagenase NB 4	0.2-0.3 PZ U/ml*, 30-60 min, 37 °C
Murine	Collagenase NB 4	0.2-0.3 PZ U/ml*, 30-60 min, 37 °C

**Clinical applications\*\*:**

Species	Enzyme	Conditions
Human	Collagenase NB 6	0.2-0.3 PZ U/ml*, 30-60 min , 37 °C

\* 0.1 - 0.15 PZ U/ml final concentration after addition of adipose tissue

**Wharton's jelly:**

Species	Enzyme	Conditions
Human	Collagenase NB 4	0.13-0.15 PZ U/ml, 1-6 h , 37 °C

**Clinical applications\*\*:**

Species	Enzyme	Conditions
Human	Collagenase NB 6	0.13-0.15 PZ U/ml, 1-6 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..

**Isolation conditions**

The suggested SERVA 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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