

## ISOLATION OF CELLS OF REPRODUCTIVE TISSUES WITH COLLAGENASE NB

In the following, application details for isolation of *Xenopus* Oocytes, isolation of cells from human endometrium, human foreskin (HDMEC) and umbilical cord (HUVEC), epithelial cells from murine mammary glands and breast or uterus tumor cells are presented.

**Oocytes from *Xenopus laevis*:**

Species	Enzyme	Conditions	
Frog	Collagenase NB 4G	0.3-0.5 PZ U/ml, 1.5-2 h, RT	

**Amnion and chorion cells from human fetal tissue:**

Species	Enzyme	Conditions	
Human*	Collagenase NB 8	3.5-5.5 PZ U/ml, 3-5 h, 37 °C	

**Endometrial cells from human cervical tissue:**

Species	Enzyme	Conditions	
Human*	Collagenase NB 4 or Collagenase NB 6	0.2-0.3 PZ U/ml, 30 min, 37 °C	

**Endothelia cells from human foreskin and umbilical vein:**

Species	Enzyme	Conditions	
Human* (HDMEC)	Collagenase NB 4 or Collagenase NB 6	0.5-0.7 PZ U/ml, 0.5-2 h, 37 °C	
Human* (HUVEC)	Collagenase NB 4 or Collagenase NB 6	0.15-0.25 PZ U/ml, 0.5-2 h, 37 °C	

**Epithelia cells from murine mammary gland:**

Species	Enzyme	Conditions	
Mouse	Collagenase NB 4	0.3-0.4 PZ U/ml, 15-25 min, 37 °C	

**Tumor cells from breast and uterus:**

Species	Enzyme	Conditions	
Human*	Collagenase NB 8	3.5-5.5 PZ U/ml, 3-5 h, 37 °C	

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

**Collagenase NB 4 Standard Grade (cat. no. S1745402)** has a collagenase activity of  $\geq 0.1$  PZ U/mg and a balanced mix of proteolytic side activities.

**Collagenase NB 4G Proved Grade (cat. no. S1746501)** has a collagenase activity of  $\geq 0.18$  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.

**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.

#### 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@crestedchemical.com](mailto:collagenase@crestedchemical.com) or visit us at [www.crescentchemical.com](http://www.crescentchemical.com).

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