

## SKIN



### ISOLATION OF SKIN CELLS WITH COLLAGENASE NB

In the following, application details for isolation of endothelial cells from rodent aortas, human foreskin (HDMEC) and for isolation of fibroblasts from rodent and human skin and connective tissue are presented

#### Endothelia cells from from rodent aortas and human foreskin:

Species	Enzymes	Conditions	
Rodent	Collagenase NB 4	0.12-0.15 PZ U/ml, 10-20 min, 37 °C	
Human* (HDMEC)	Collagenase NB 4 or Collagenase NB 6	0.5-0.7 PZ U/ml, 0.5-2 h, 37 °C	

#### Melanoma cells from murine skin:

Species	Enzymes	Conditions	
Mouse	Collagenase NB 8	0.12 PZ U/ml, 30 min, 37 °C	

#### Fibroblasts from murine and human skin:

Species	Enzymes	Conditions	
Human*	Collagenase NB 4G	0.2-0.3 PZ U/ml, 2 h, 37 °C	
Rodent	Collagenase NB 4G	0.2-0.5 PZ U/ml, 12-20 h, 37 °C	

#### Clinical applications:

Species	Enzyme	Conditions	
Human*	Collagenase NB 6	0.2-0.3 PZ U/ml, 2 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 visit our support section!

**[Contact Nordmark Biochemicals Team](#)**

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

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