

HEART



ISOLATION OF HEART CELLS WITH COLLAGENASE NB

In the following, application details for isolation of cardiomyocytes from rodent and human heart tissue and endothelia cells from rodent aortas are presented.

Cardiomyocytes from cardiac muscle tissue:

| Species | Enzyme | Conditions | |
|-------------|------------------|------------------------------------|--|
| Rat (adult) | Collagenase NB 8 | 0.5 PZ U/ml, 45-60 min, 37 °C | |
| Human* | Collagenase NB 8 | 0.8-1.0 PZ U/ml, 2-3.5 h, 37 °C | |

Endothelia cells from aorta tissue:

| Species | Enzyme | Conditions | |
|---------|------------------|--|--|
| Rodent | Collagenase NB 4 | 0.12-0.15 PZ U/ml, 10-20 min, 37 °C | |

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

Collagenase NB 4 Standard Grade (cat. no. S1745401) has a collagenase activity of ≥ 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 (≥ 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@crescentchemical.com or visit us at www.crescentchemical.com.

Ordering:

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