

DNase I Solution (1 mg/mL)



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Catalog # 07900 1 mL
100-0762 10 x 1 mL

Product Description

Deoxyribonuclease (DNase) I Solution (1 mg/mL) is useful for reducing or preventing aggregation of concentrated and/or cryopreserved cell suspensions following thawing. The activity range is ≥ 2000 units per mg of protein.

Properties

- Storage:** Store at -20°C .
- Shelf Life:** Stable until expiry date (EXP) on label.
- Contains:**
- Bovine pancreatic deoxyribonuclease I (1 mg/mL)
 - Phosphate-buffered saline

Handling / Directions For Use

Storage at $2 - 8^{\circ}\text{C}$ is not recommended. Use the protocol below when cell samples appear to be aggregating; this can occur when cells have been frozen and thawed or after enzymatic tissue digestion. For optimal performance, use cells diluted in a medium that does not contain a chelator of calcium and magnesium ions (e.g. EDTA).

1. Thaw DNase I Solution at room temperature ($15 - 25^{\circ}\text{C}$) or overnight at $2 - 8^{\circ}\text{C}$.
2. Centrifuge cells and carefully remove the supernatant.
3. Resuspend cells in 0.1 mg/mL of DNase I Solution.
4. Incubate at room temperature for 15 minutes.

NOTE: For optimal cell separation results, filter aggregated suspensions through a $37 \mu\text{m}$ Reversible Strainer (Catalog #27215/27250), then resuspend at the appropriate cell concentration in desired medium.

NOTE: For downstream applications that are sensitive to DNase, wash cells with appropriate DNase-free medium.

Notes

ACTIVITY UNITS

1 unit refers to the amount of DNase I required to act on 1 mg/mL of DNA ($\text{pH } 5.0, 25^{\circ}\text{C}$) to produce an increase in absorbance of 0.001 per minute at a wavelength of 260 nm .

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