

DNase I Solution (1 mg/mL)

Cell dissociation reagent

Catalog # 07900 1 mL



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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. Activity range ≥ 2000 Kunitz units per mg of protein. One Kunitz unit refers to the amount of DNase I required to act on 1 mg/mL of DNA (pH 5.0, 25°C) to produce an increase in absorbance of 0.001 per minute at a wavelength of 260 nm.

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°C is not recommended. Use the following protocol 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 such as EDTA.

1. Thaw DNase I Solution at room temperature (15 - 25°C) or overnight at 2 - 8°C.
 2. Centrifuge cells and carefully remove the supernatant.
 3. Resuspend cells in 0.1 mg/mL of DNase I Solution.
 4. Incubate for 15 minutes at room temperature (15 - 25°C).
- NOTE: For optimal cell separation results, filter aggregated suspensions through a 40 μ m Cell Strainer (Catalog #27305) and 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.

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