**Product Description**

Deoxyribonuclease (DNase) I Solution (1 mg/mL) is useful to reduce or prevent the clumping of concentrated and/or cryopreserved cell suspensions following thawing. Activity range ≥ 2000 Kunitz units per mg of protein. One Kunitz 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 clumping. 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 clumpy suspensions through a 40 μm Cell Strainer (Catalog #27305) and then resuspend to the appropriate cell concentration in desired medium.

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