

Datasheet

## Trypsin / Trypsin-EDTA Solution / Powder

### Cell Detachment Solution / Powder

Product	Description	Catalogue-No.	Size
Trypsin-EDTA 0.25%/0.02% w: Phenol red	Trypsin 0.25 %/EDTA 0.02 %, in PBS w/o: Ca and Mg, w: Phenol red, Cell detachment solution	P10-019100 P10-019500	100 ml 500 ml
Trypsin-EDTA 0.25%/0.02%	Trypsin 0.25 %/EDTA 0.02 % in PBS, w/o: Ca and Mg, Cell detachment solution	P10-020100 P10-020500	100 ml 500 ml
Trypsin 0.25%	Trypsin 0.25 % in PBS, w/o: Ca and Mg, Cell detachment solution	P10-021100 P10-021500	100 ml 500 ml
(10x) Trypsin 2.5%	Trypsin 2.5 % in PBS, w/o: Ca and Mg, Cell detachment solution	P10-022100 P10-022500	100 ml 500 ml
Trypsin-EDTA 0.05%/0.02%	Trypsin 0.05 %/EDTA 0.02 % in PBS, w/o: Ca and Mg, Cell detachment solution	P10-023100 P10-023500	100 ml 500 ml
Trypsin-EDTA 0.05%/0.02% w: Phenol red	Trypsin 0.05 %/EDTA 0.02 % in PBS, w/o: Ca and Mg, w: Phenol red, Cell detachment solution	P10-0231SP P10-0235SP	100 ml 500 ml
(10x) Trypsin-EDTA 0.5%/0.2%	(10x) Trypsin 0.5 %/EDTA 0.2 % in PBS, w/o: Ca and Mg, Cell detachment solution	P10-024100 P10-024500	100 ml 500 ml
Trypsin-EDTA 0.05%/0.1%	Trypsin 0.05 %/EDTA 0.1% in PBS, w/o: Ca and Mg Cell detachment solution	P10-027100 P10-027500	100 ml 500 ml
Trypsin-EDTA 0.25%/1 mM w: Phenol red	Trypsin 0.25 %/ 1 mM EDTA in HBSS, w/o: Ca and Mg, w: Phenol red, Cell detachment solution	P10-029100 P10-029500	100 ml 500 ml
Trypsin 0.25 %	Trypsin 0.25 % in KCL with Phenolred, 2.2 g/L NaHCO <sub>3</sub> , cell detachment solution	P10-25100	100 ml
Trypsin powder	Trypsin powder (1:250) porcine origin	P10-025025P P10-025100P P10-025500P	25 g 100 g 250 g

**Product description**

Trypsin is a porcine pancreas-derived enzyme that is commonly used for the dissociation of anchorage dependent mammalian cells and tissues. The concentration of trypsin necessary to dislodge cells from their substrate is dependent on the cell type and the age of the culture.

Ethylenediaminetetraacetic acid (EDTA), a chelating agent, is added to trypsin solutions to enhance enzymatic activity by neutralizing calcium and magnesium ions that enhance cell-to-cell adhesion and obscure the peptide bonds on which trypsin acts.

**Storage conditions**

Storage: solution: - 20 °C, powder: +2°C to +8°C  
Stability: 2 years from date of production  
Filling: 100 ml, 500 ml, other sizes on request

**Composition**

Trypsin 1:250 from porcine pancreas (and EDTA) in different salt solutions

**Suitability**

Enzymatic solution for the dissociation and disaggregation of anchorage dependent mammalian cells and tissues. Trypsin solutions can range from 0.025% to 0.5% for different reasons.

- Differences in trypsin activity or potency
- Different incubation times and temperature
- Different cell lines

**Instructions for Use****Powder**

1. Dissolve calculated amount of Trypsin powder in PBS w/o: Ca, Mg.
2. Sterilise with a 0.2 µm filter.

**Solution**

1. Frozen trypsin can be thawed either in a 37 °C water bath or overnight at 2 to 8 °C
2. 10x concentrated solution can be diluted with DPBS w/o Ca, Mg.
3. Aspirate and discard the spent medium from the culture vessel.
4. Rinse the monolayer with Ca and Mg free salt solution (DPBS or HBSS).
5. Remove salt solution
6. Add enough trypsin solution, prewarmed in a 37 °C water bath, to completely cover the cell monolayer.
7. Incubate the flask at 37 °C, or for more sensitive cultures at room temperature or at 2 to 8°C.
8. When the trypsination process is complete, cells will appear round upon microscopic examination and the solution in the flask will appear cloudy. Check the flask often to avoid overexposure which can damage the cells.
9. The trypsin should be neutralized either with serum-containing medium or trypsin inhibitor.
10. Gently centrifuge the cell suspension and discard the trypsin-containing supernatant.
11. Resuspend the cell pellet with fresh medium and count or culture as desired.

**Technical support**

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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