

Corning® Dulbecco's Phosphate Buffered Saline

Technical Brief - Preparation of a 1x Solution

CORNING

Corning Dulbecco's Phosphate Buffered Saline (DPBS) is used in mammalian cell culture as a diluent in cell enumeration assays, for cell washing, and to resuspend cells during dissociation assays. DPBS provides the proper environment to maintain cellular structure and physiology *in vitro*.

Preparation of a 1x Solution

Preparation from a 10x solution

- Step 1:** Dilute the 10x DPBS (Cat. No. 20-030-CV with calcium and magnesium, Cat. No. 21-030-CV without) 1:10 with cell culture grade distilled, deionized water (such as Cat. No. 25-055-CV) at room temperature (15 to 30°C). Ensure that the solution is thoroughly mixed.
- Step 2:** Adjust the pH to 7.0 using 1N NaOH or 1N HCl (pH adjustments are only required when diluting 20-030-CV). Final pH after filtration should be 7.4 ± 0.1 for DPBS without Ca+Mg and 7.0 ± 0.1 for DPBS with Ca+Mg.
- Step 3:** Sterilize the solution using a 0.22 micron sterilizing filter. Do not autoclave or adjust pH using CO₂.
- Step 4:** Aseptically dispense the solution into sterile containers and store from 2 to 30°C.

Preparation from Powder

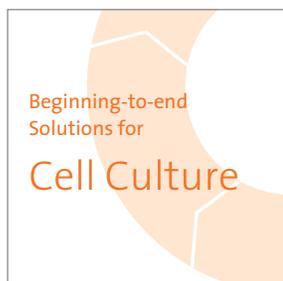
- Step 1:** Dry powder must be free flowing. Do not use if powder is caked or clumping, indicating accumulation of moisture.
- Step 2:** Measure 90% of the final volume of cell culture-grade distilled, deionized water (Cat. No. 25-055-CV) into an appropriate container for mixing. Water must be at room temperature (15 to 30°C).
- Step 3:** Add the powdered DPBS (Cat. No. 55-031-PB) to the water and mix until completely dissolved. Final pH should be 7.4 ± 0.1
- Step 4:** Add cell culture grade distilled, deionized water (Cat. No. 25-055-CV) to bring the solution to final volume.
- Step 5:** Sterilize the solution using a 0.22 micron sterilizing filter. Do not autoclave or adjust the pH using CO₂.
- Step 6:** Aseptically dispense the solution into sterile containers and store from 2 to 30°C.



Ordering Information

Cat. No.	Description	Unit Size	Qty/Pk
20-030-CV	DBPS, 10x with calcium and magnesium	500 mL	6
21-030-CV	DPBS, 1x without calcium and magnesium	500 mL	6
25-055-CV	WFI-Quality, Cell Culture Grade Water	500 mL	6
55-031-PB	DPBS, powder without calcium and magnesium	10L	1

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At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

It is this expertise, plus a 160-year history of Corning innovation and manufacturing excellence, that puts us in a unique position to offer a beginning-to-end portfolio of high-quality, reliable cell culture consumables.

For additional product or technical information, please visit www.cellgro.com or call 1.800.235.5476.

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