

# ST Serum-reduced Medium (90-070)

CORNING

## Instructions for Use

### Media Basics

Dry powder ST Serum-reduced Medium was developed for ST cells, without animal-derived components, chemically defined, with L-glutamine, Poloxamer 188 and phenol red, without sodium bicarbonate. It is mainly used for serum-reduced adherent culture of ST cells.

### Specifications

1L of media is produced using 13.75 g of dry powder medium.

Description	Cat. No.	Quantity	Expiration Date
ST Serum-reduced Medium	90-070-PBT	1 x 10L	2 years
	90-070-PCT	1 x 50L	2 years
	90-070-PDT	1 x 100L	2 years

### Storage Conditions

2°C to 8°C, sealed and protected from light.

### Preparation Method (1L)

1. Check the condition of the powder before preparation to ensure it flows freely and is free of clumps. Clumping indicates the medium has absorbed moisture, which may impact product quality and stability.
2. Add room temperature (20°C to 30°C) cell culture grade water (Corning 25-055-CM) or ultrapure water to a clean container to 90% of the final volume (~900 mL). Place water on a stir plate and rotate at slow setting.
3. Carefully weigh out 13.75 g of dry powder medium onto a clean weighing dish. Slowly add the medium powder to the container, rinse the weighing dish with water and add to container. Stir the solution for 30 minutes until the liquid becomes clear. **NOTE:** Do not add medium powder first and then water, as it will clump and prevent full dissolution.  
**NOTE:** Unused portion of the powdered media should be placed in an air tight container and stored at conditions listed above.
4. Add 2.29 g of sodium bicarbonate (Corning 61-065-RO).
5. Stir continuously for 10 minutes until completely dissolved and add water to within 1% of the final volume.
6. Adjust the pH value to desired value by slowly adding either 1N NaOH solution or 1N HCl and stir until the desired pH is stable.
7. Stop stirring, add water to 1L, and filter sterilize using a 0.22 µm or smaller filter (Corning 431098).
8. For final media preparation, add Fetal Bovine Serum (FBS) to desired final concentration and filter sterilized if desired.
9. The prepared media should be stored at 2°C to 8°C protected from light.

**NOTE:** There are 2 methods to prepare 10L, 50L, and 100L quantities:

1. 13.75 g of dry powder can be weighed per liter and be prepared according to the method above.
2. A single package (10L, 50L, and 100L) can be completely prepared at one time according to the method above. 2.29 g/L of sodium bicarbonate should be added in proportion to the volume of media prepared.

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