

MDCK Serum-free Medium (90-030)

CORNING

Instructions for Use

Media Basics

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

Specifications

1L of media is produced using 26.0 g of dry powder medium.

Description	Cat. No.	Quantity	Expiration Date
MDCK Serum-free Medium	90-030-PBT	1 x 10L	2 years
	90-030-PCT	1 x 50L	2 years
	90-030-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 26.0 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 2.0 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 7.10 ± 0.05 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. The prepared media should be stored at 2-8°C protected from light.

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

1. 26.0 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. 2.0 g/L of sodium bicarbonate should be added in proportion to the volume of media prepared.

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CORNING

Corning Incorporated
Life Sciences
www.corning.com/lifesciences

NORTH AMERICA

t 800.492.1110
t 978.442.2200

ASIA/PACIFIC

Australia/New Zealand

t 61 427286832

Chinese Mainland

t 86 21 3338 4338

India

t 91 124 4604000

Japan

t 81 3-3586 1996

Korea

t 82 2-796-9500

Singapore

t 65 6572-9740

Taiwan

t 886 2-2716-0338

EUROPE

CSEurope@corning.com

France

t 0800 916 882

Germany

t 0800 101 1153

The Netherlands

t 020 655 79 28

United Kingdom

t 0800 376 8660

All Other European Countries

t +31 (0) 206 59 60 51

LATIN AMERICA

grupoLA@corning.com

Brazil

t 55 (11) 3089-7400

Mexico

t (52-81) 8158-8400