

# BHK-21 Serum-reduced Medium 1 (90-102)

CORNING

## Instructions for Use

### Media Basics

Dry powder BHK Serum-reduced Medium 1 was developed for BHK-21 cells, without animal-derived components, with L-glutamine and Poloxamer 188, without phenol red or sodium bicarbonate. It is mainly used for serum-reduced suspension culture of BHK-21 cells.

### Specifications

1L of media is produced using 21.48 g of dry powder medium.

Description	Cat. No.	Quantity	Expiration Date
BHK Serum-reduced Medium 1	90-102-PBT	1 x 10L	2 years
	90-102-PCT	1 x 50L	2 years
	90-102-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 will 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 stir at slow setting.
3. Carefully weigh out 21.48 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  $7.10 \pm 0.05$  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. 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. 21.48 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.

**Warranty/Disclaimer:** Unless otherwise specified, all products are for research use or general laboratory use only.\* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. \*For a listing of US medical devices, regulatory classifications or specific information on claims, visit [www.corning.com/resources](http://www.corning.com/resources).

*Corning's products are not specifically designed and tested for diagnostic testing. Many Corning products, though not specific for diagnostic testing, can be used in the workflow and preparation of the test at the customers discretion. Customers may use these products to support their claims. We cannot make any claims or statements that our products are approved for diagnostic testing either directly or indirectly. The customer is responsible for any testing, validation, and/or regulatory submissions that may be required to support the safety and efficacy of their intended application.*

# CORNING

Corning Incorporated  
Life Sciences

[www.corning.com/lifesciences](http://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