



Membrane Stabilization KIT

Cat.No.: K105

www.dauids-bio.com (Custom Antibodies)

www.dauids-science.de (Lab Material)

- 1 - Introduction

This KIT utilizes a novel technique to stabilize and maintain the essential characteristics of cell membranes. Consequently, the membrane is optimally prepared for subsequent immunization processes. We recommend the use of freshly produced cells with a quantity of 10^8 - 10^9 cfu or pfu. The KIT is designed to accommodate primary cells, permanent cell cultures, bacteria, and viral particles. All procedures can be performed conveniently at room temperature. Each KIT provides reagents for a minimum of two reactions.

- 2 - Material

Material		
Dilution Buffer	Included in the KIT	2 x 1 ml
Reaction Buffer	Included in the KIT	2 x 100 µl
Stop Solution	Included in the KIT	2 x 100 µl
Storage Buffer	Included in the KIT	2 x 500 µl
PBS	Alternatively Standard Cultivation Medium without FBS	

- 3 - Method

Sample Preparation

- Prepare 10^8 – 10^9 cells, ensuring the use of fresh cells
- Centrifuge cells at 350 x g for 6 minutes
for small cells and virus particles we recommend 5 000 x g for 6 minutes
- Wash cells with 1x PBS or media without any other proteins

Cell Stabilization

- Resuspend the cell pellet with 1 ml of Dilution Buffer
- Incubate the cells at room temperature for 2 minutes
- Add 100 µl of Reaction Solution
- Gently mix the cells for 1 minute
- Incubate the cells at 60 rpm on a shaker for 60 minutes

Not for diagnostic or therapeutic use. Not for human use. For research purposes only. This product is not a medical device.
Not for use in in vitro diagnostic procedure for clinical diagnosis. Custom tests must be done to determine the ability for a specific use.

- Add 100 µl of Stop Solution
- Incubate the mixture for 20 minutes
- *Optionally: Expose the cells in the vial to a UV lamp at a distance of 2 – 10 cm from the lamp's surface for 20 minutes*
- Centrifuge the cells at 500 x g
- Resuspend the cell pellet in 500 µl of Storage Buffer
- Please ship the stabilized cells to Davids at temperatures ranging from 2 – 30 °C

- 4 - Additional Information

Reason	Solution
Storage conditions for stabilized cells	Store at 2-8 °C for up to one month For long-term storage, store at -24 °C for up to one year
Storage conditions for Davids KIT	Please consume the contents of the KIT within 10 days after opening
Cell preparation: cell pellet	Utilize $10^8 - 10^9$ cfu for optimal results The cell pellet should have a volume ranging from 10 to 100 µl
Cell preparation: wash step	Use an isotonic buffer such as 1 x PBS for washing Alternatively, utilize a standard cell culture media without additional proteins
Optional treatment of cells with a UV lamp	Ensure that the distance between the vial containing cells and the surface of the lamp is between 2 and 10 cm Please use UV lamps specifically designed for sterilization or UV lamps for Ethidium bromide gels
Shipment of stabilized cells	Davids Biotechnologie GmbH Custom Antibodies Roentgenstrasse 3 93055 Regensburg Germany Please ship the cells with cool packs at 2 – 8 °C