

NutriCulture PBS 1x, w/o MgCl₂ and CaCl₂

Troubleshooting Guide

500 mL, 10 x 500 mL

Cat No: PBS1x-500, PBS1x-50010

Use this guide for source-supported product-selection and handling checks for NutriCulture PBS 1x. This is a ready-to-use balanced salt solution without magnesium chloride or calcium chloride. The datasheet lists applications including washing cells before trypsinization, transporting cells/tissues, diluting cells for counting, and preparing reagents.

Before You Start - Quick Checks

1. Confirm this is PBS 1x; it is already at working concentration.
2. The product does not contain magnesium chloride or calcium chloride.
3. Store at room temperature.
4. The solution is prepared with ultra-pure water, filter sterilized, and autoclaved.
5. Use it only where a Ca/Mg-free PBS is appropriate for the intended workflow.
6. The datasheet does not provide a dilution step because the product is supplied as 1x.

Problem	Most likely cause	Recommended action
PBS was diluted before use	The 1x product may have been mistaken for a concentrate.	Use NutriCulture PBS 1x directly as the working solution unless a separate validated protocol specifies otherwise.
Calcium or magnesium is expected in the buffer	The formulation may have been confused with a Ca/Mg-containing PBS.	This product is explicitly supplied without magnesium chloride and without calcium chloride.
The wrong PBS formulation is used before cell dissociation	A Ca/Mg-containing buffer may have been expected or selected by mistake.	Verify that the workflow requires the Ca/Mg-free formulation. The datasheet describes this product for rinsing chelators from culture before cell dissociation.
Storage condition is uncertain	The product may not have been kept according to the datasheet.	Store at room temperature.
PBS is needed for cell washing before trypsinization	The use may not have been confirmed against the product applications.	The datasheet lists washing cells before trypsinization as an intended application.
PBS is needed for cell counting or reagent preparation	The use may not have been confirmed.	The datasheet lists diluting cells for counting and preparing reagents among the intended applications.
Sterility history is questioned after opening/handling	The product is supplied filter sterilized and autoclaved, but the datasheet does not define post-opening aseptic lifetime.	Use clean handling and evaluate any post-opening sterility concern according to the laboratory SOP; do not infer a shelf life not stated in the datasheet.

Still having trouble? Verify that the product is PBS 1x, is being used without unnecessary dilution, and that a Ca/Mg-free formulation is appropriate for the workflow. Store at room temperature and use validated laboratory handling practices for any post-opening sterility requirements.