NOV 21, 2020

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.bpximpke

Document Citation: Marco Cosentino, Elisa Storelli, Alessandra Luini, Massimiliano LM Legnaro, Emanuela Rasini, Marco Ferrari, Franca Marino 2020. SOLUTION- 02 - Phosphate Buffered Saline (PBS). **protocols.io** <https://dx.doi.org/10.17504/protocols.io.bpximpke>

License: This is an open access document distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Created: Nov 21, 2020

Last Modified: Nov 21, 2020

DOCUMENT integer ID:
44746

Phosphate-buffered saline (PSB 1X)

NaCl- 8 g (137 mM)

KCl- 1.5 g (2 mM)

SOLUTION- 02 - Phosphate Buffered Saline (PBS)

Marco Cosentino¹, Elisa Storelli¹, Alessandra Luini¹,
 Massimiliano LM Legnaro¹, Emanuela Rasini¹, Marco
 Franca Marino¹, Ferrari¹

¹Center for Research in Medical Pharmacology, University of Insubria (Varese)

Farmacologia Medica

ABSTRACT

This recipe is used in the following protocols:

- Separation and purification of human PBMC from FRESH BLOOD
- Separation and purification of human PBMC from BUFFY COAT
- Magnetic bead-based CD4+ T cell isolation from PBMCs with Dynabeads: CD4 Positive Isolation Kit
- Magnetic bead-based TREG-TEFF cell isolation from PBMC with Miltenyi CD4+CD25+ Regulatory T cell Isolation Kit
- Staining of human PBMC or ISOLATED SUBSETS with Cell Proliferation Dye-eFluor™ 670 (CPD-eFluor670) for cell proliferation evaluation by Flow Cytometry

Na₂HPO₄- 1.44 g (10 mM)

KH₂PO₄- 0.24 g (1.8 mM)

To prepare 1 L of PBS 1X, dissolve the reagents listed above in 800 mL of ultrapure H₂O.

Adjust the pH to 7.4 with HCl or NaOH, and then add H₂O to 1 L.

NaClcode: S9625, Sigma

KClcode: P9541, Sigma

Na₂HPO₄code: 1.06585, Sigma

KH₂PO₄code: P0662, Sigma