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How to make 10x pbs

Materials 2.28 g NaH₂PO₄ (mw=120; 0.038M) or 2.62g NaH₂PO₄(H₂O) (mw=137.99; 0.038M) (Note: monobasic!!!) 11.5g Na₂HPO₄ (mw=141.96; 0.162M) (Note: dibasic!!!) 43.84g NaCl How to: Add NaH₂PO₄ and Na₂HPO₄ and NaCl to 450 ml dH₂O. Adjust pH to 7.4 by adding dilute (1N) HCl if necessary. Bring the final volume to 500 ml with water. Dilute 1:10 for final concentration. Tip for sterilizing toothpicks without an autoclave (for innoculating cultures or streaking plates) Cook in regular oven 275F for 1 hour, wrapped in tin foil! x 10x PBS (phosphate buffered saline) is available in the ELISA Kit Reagent Refill Package (#166-2401EDU) for use with ELISA Immuno Explorer™ Kit (#166-2400EDU). Refill reagents are antigen, antibodies, 10% Tween, 10x PBS, and HRP enzyme substrate. It is also for use with the Got Protein?™ Kit (#166-2900EDU). This product is for education use only. Version: 2 Revision Date: 12.07.2015 Formulation 1M Liquid Concentrated Buffer Solution, pH 7.4 (+/- 0.1). Storage & Handling This product should be stored at room temperature. Recommended Usage 1 liter of 10x concentrate will make 10 liters of phosphate-buffered saline. Liquid format requires minimal mixing, increases product consistency and allows end user to prepare volumes of buffer according to daily needs. Application Notes Dilute 10x solution to 1X for use. Final 1X solution will be 0.1M. Solution does not contain calcium or magnesium. Product CitationsPeng Y 2017. PLoS One. 10.1371/journal.pone.0188112. PubMedPark S, et al. 2016. Proc Natl Acad Sci U S A. 113(52):E8379-E8386. PubMedFeng J, et al. 2017. Cell Mol Immunol. 10.1038/cmi.2016.71. PubMed Technical Data Sheet (pdf) Certificate of Analysis Safety Data Sheet View All Reagents Request Custom Conjugation Go To Top Version: 2 Revision Date: 12.07.2015 For research use only. Not for diagnostic use. Not for resale. 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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587 Insert Note Here Save Close Clear Lab Timer Copyright © 2021 BioLegend, Inc. 10X PBS (Phosphate Buffered Saline) is a 10 fold concentrated, sterile, pH adjusted blend of phosphate buffer and saline solution, which when diluted 1 to 10 in ultrapure water produces a phosphate buffered saline of 8mM NaH₂PO₄, 150mM NaCl, 3mM KCl, and 2mM KH₂PO₄ at pH 7.4. The 10X solution is a sterile solution. 1X PBS (Phosphate Buffered Saline) is a ready-to-use, sterile, pH adjusted blend of phosphate buffer and saline solution of 8mM NaH₂PO₄, 150mM NaCl, 3mM KCl, and 2mM KH₂PO₄ at pH 7.4. Pre-mixed dry powder buffer packs are also available, including 1X PBS, 1X PBS with Tween 20, Dulbecco's PBS and 10X PBS. Composition 1X: 8mM NaH₂PO₄, 150mM NaCl, 3mM KCl, 2mM KH₂PO₄ (pH 7.4) 10X: 80mM NaH₂PO₄ 1.5M NaCl, 30mM KCl, 20mM KH₂PO₄ Features Sterile filtered through 0.2µm filter 10X and ready to use 1X solutions available Get help with your researchJoin ResearchGate to ask questions, get input, and advance your work. Harvard Medical School Harvard Medical School Paracelsus Medical University Salzburg Mario Negri Institute for Pharmacological Research College of veterinary medicine, University of Duhok, Kurdistan, Iraq Paracelsus Medical University Salzburg Carlos Alberto Montoya FlórezUniversity of Antioquia Paracelsus Medical University Salzburg School of Public Health, Iran University of Medical Sciences, Tehran, Iran. Durham University Paracelsus Medical University Salzburg Phosphate-buffered saline (PBS) is an isotonic solution that is used in many biological research applications. This 10X PBS recipe contains 1.37 M NaCl, 27 mM KCl, 100 mM Na₂HPO₄, and 18 mM KH₂PO₄. To make 1 L of 10X PBS stock solution, combine 17.8 g of Na₂HPO₄, 2.4 g of KH₂PO₄, 80 g of NaCl, 2 g of KCl, and adjust final volume to 1 L. This recipe calculator enables the accurate preparation of 10X PBS for any millimeter volume. Input your desired volume, click the CALCULATE button, and the table will populate with the amounts of each component needed. 10X Solution concentrations: NaCl: 1.37 M KCl: 27 mM Na₂HPO₄: 100 mM KH₂PO₄: 18 mM how to make 10x pbs from 1x. how to make 10x pbs solution. how to make 10x pbs buffer

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