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DATA SHEET

Version: 5
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1. Identification

Product name

Phosphate Buffered Saline (PBS) (pH 7.4), Sterile

Cat. No

BR0003 1,000 mL (1x solution)
BR0004 1,000 mL (10x solution)
BR0017 1,000 mL (20x solution)
BR0344 5 L (1x solution) in a graduated square container
BR0347 20 L (1x solution) in a graduated square container
BR0348 20 L (10x solution) in a graduated square container
BR0350 100 L (1x solution) in a single-use bag with plastic drum

2. Description

Phosphate-Buffered Saline (PBS) (pH 7.4) is a high quality, sterile and convenient water-based salt solution containing sodium phosphate, sodium chloride, potassium chloride and potassium phosphate.

PBS is widely used **Cell Culture Manufacturing**, and **Upstream and Downstream processes**, in Cell Biology to maintain the osmolarity, in Immunoassays (ELISA, immuno-histochemical), to maintain the protein pH, to dissolve proteins and peptides samples. PBS is formulated without calcium and magnesium for rinsing chelators from the culture before cell dissociation.

3. Specifications

Format: Liquid
Sterile solution: [Filtered through 0.2um, aseptically filled].

Components:

Component Name	CAS	MW
Sodium Phosphate Dibasic	7558-79-4	141.96
Potassium Phosphate Monobasic	7778-77-0	136.09
Potassium Chloride	7447-40-7	74.55
Sodium Chloride	7647-14-5	58.44
WFI Quality Water	7732-18-5	18.02

Standard Analytics (1x):

Test	Specificitation	Method reference
Appearance	Clear and Colourless liquid	Ph. Eur. 2.2.1; 2.2.2 and 2.9.20.
pH	7,1 – 7,5	Potentiometry Ph Eur 2.2.3
Osmolarity	280 – 310 mOsm/kg	Ph. Eur. 2.2.35
Bioburden	<0.1 CFU/mL	Ph. Eur. 2.6.12
Endotoxin testing	< 1 EU/mL	Ph. Eur. 2.6.14

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4. Shipping and Storage specifications

- **Shipped at:** Ambient temperature.
- **Storage:** Room temperature (15 – 25 °C).
- **Shelf life:** 24 months from date of manufacturing.

The salts in the 10X and 20X solutions are highly concentrated.

- Temperatures below 6 °C may cause the salts to precipitate.
- If this occurs, stir the solution at room temperature for about 30 minutes to re-dissolve the salts (use an alcohol-cleaned stir-bar to prevent bacterial contamination).

5. Applications

Designed for a wide range of **Further Manufacturing and Research applications**:

- Cell culture manufacturing.
- Upstream and Downstream processes.
- Dilute substances to working concentration.
- Used to immobilize a substance, as a protein, in a solid surface.
- Immuno-histochemical, ELISA and Western blot assays.
- Microbiological procedures.

6. Directions for use

BR0003 Ready-to-use solution
BR0004 Dilute 10x solutions 10:1 to make a 1x working solution.
BR0017 Dilute 20x solutions 20:1 to make a 1x working solution.
BR0344 Ready-to-use solution
BR0347 Ready-to-use solution
BR0348 Dilute 10x solutions 10:1 to make a 1x working solution.
BR0350 Ready-to-use solution

The pH should be 7.4 ± 0.2 at 25°C.

- The pH of the solution may require slight adjustment.
- Adjust pH with 1N HCl (if pH is high) or 1N NaOH (if pH is low).

7. Quality

Manufactured in an **ISO 13485:2016 and GMP-certified facility**, located in Boecillo, Valladolid (Spain), under ISO9001:2016 procedures to ensure the highest quality standards. Our processes include:

- Batch-to-batch consistency.
- Facilities audited regularly Quality audits.
- Lot specific CoAs and QA review previously to release a product.
- Material traceability, documented procedures and documented employee training.
- Equipment maintenance and monitoring records.

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8. Further information

Product Use Limitation

This product is developed, designed and sold exclusively only for research purposes use and Further Manufacturing. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Disclaimer

The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product. It is the end user´s responsibility to ensure that the final product meets the requirements of the application for which it is to be used.