

PBS pH 7.4 w/ Triton X 100 1.5%

Phosphate Buffered Saline with Triton X-100.

TYPICAL FORMULA	(per liter)
Sodium Chloride	8.0 g
Potassium Chloride	0.2 g
Sodium Phosphate Dibasic, anhydrous	1.44 g
Potassium Dihydrogenphosphate	0.24 g
Triton X-100	15.0 ml
Final pH 7.4 ± 0.2	

DESCRIPTION

PBS is a ready-to-use solution used in microbiological procedures as well as in many biological applications, i.e. washing cells, transportation of tissues and dilutions.

This formulation includes 1.5% Triton X-100.

PRINCIPLE

The use of phosphate buffer instead of unbuffered water limits variation in the pH of water from multiple sources. In addition, PBS closely mimics the pH, osmolarity and ion concentrations of the human body. Since the nutrients in the solution are minimal to none, multiplication of microorganisms is reduced. Triton X-100 is a non-ionic detergent widely used as membrane permeabilizing agent.

STORAGE

10-25°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. Koji Itahana.; Judith Campisi.; Goberdhan P. Dimri. Methods to Detect Biomarkers of Cellular Senescence. *Biological Aging*. 2007, 21-31.
2. Kimiko Takahashi.; Yoshio Sawasaki.; Jun-Ichi Hata.; Kiyoshi Mukai.; Tamotsu Goto. Dimri. Spontaneous transformation and immortalization of human endothelial cells. *In Vitro Cellular & Developmental Biology*. 1990, (3), 265-274.



PRODUCT SPECIFICATIONS

NAME

PBS pH 7.4 w/ Triton X 100 1.5%

PRESENTATION

Glass bottles containing liquid solution

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
400320	6 bottles x 500 ml	6 bottles in cardboard box (flip-off cap)

pH

7.4 ± 0.2

USE

PBS is used as both a diluent and rinse solution. This formula enriched with Triton X-100 increases membrane permeability

APPEARANCE

Clear solution, nearly colourless

SHELF LIFE

2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 22.5 ± 2.5°C, in aerobiosis
7 days at 32.5 ± 2.5°C, in aerobiosis
- Microbiological control
Inoculum for productivity: ≤100 CFU
Incubation Conditions: aerobic atmosphere, 24 h at 32.5 ± 2.5°C for bacteria and 48 h at 22.5 ± 2.5°C for fungi










Microorganism

<i>Bacillus subtilis</i>	ATCC® 6633
<i>Candida albicans</i>	ATCC® 10231
<i>Pseudomonas aeruginosa</i>	ATCC® 9027
<i>Staphylococcus aureus</i>	ATCC® 6538

Growth on TSA

Good, ± 30% colonies of original count
Good, ± 30% colonies of original count
Good, ± 30% colonies of original count
Good, ± 30% colonies of original count

TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains Sufficient for <n> tests	 Consult instructions for use	



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