

---

## BUFFERS AND SOLUTIONS

Last updated: August 2019. Eugene Lu / Shutterstock.com



# BUFFERS AND SOLUTIONS

CERTIFIED QUALITY FOR YOUR SUCCESS

Cell and tissue culture buffers are an energy source. They also keep ideal osmotic pressure present and maintain proper pH levels. Used predominately in biomolecular research, the dry and liquid substances have a balanced inorganic salt composition. Lower concentration options permit equilibration with air in a closed system, while higher salt concentration options keep gaseous phases in equilibrium. Cell growth is optimal when plated in a nutritional medium that has been buffered.

ORDER ONLINE AT

[SERANA-EUROPE.COM](https://www.serana-europe.com)

OR SEND US AN E-MAIL

[orders@serana-europe.com](mailto:orders@serana-europe.com)

SERANA EUROPE GMBH  
Dorfstrasse 17A  
14641 Pessin, Germany

 **SERANA®**  
Science for Life

# BUFFERS AND SOLUTIONS

## ADDITIONAL INFORMATION

- **Product Use**  
This product is intended for laboratory use only
- Contains no animal components in either the containers or the product itself.

## SPECIFICATIONS

### Purified Water

Appearance	Clear colourless solution
pH @ 25.0°C	5.0 – 8.0
Osmolality	≤ 1 mOsm/kg
Conductivity @ 25°C	≤ 1 μS·cm <sup>-1</sup>
Resistivity @ 25°C	≥ 18 MΩ·cm
Endotoxin	≤ 0.25 EU/ml
Aerobic Bacteria	Not detected
Anaerobic Bacteria	Not detected
Fungi (Yeast & Mould)	Not detected
Mycoplasma	Not detected
Total Organic Carbon	≤ 200 ppb
Bioburden (prior to sterile filtr.)	≤ 10 CFU/ml
Cell Culture	Pass



## SPECIFICATIONS

### Dulbecco's PBS

Appearance	Clear colourless solution
pH @ 25°C	7.0 – 7.5
Osmolality	260 – 310
Endotoxin	≤ 1.0
Aerobic Bacteria	Not detected
Anaerobic Bacteria	Not detected
Fungi (Yeast & Mould)	not detected
Mycoplasma	Not detected



## ORDERING INFORMATION

PRODUCT	OPTIONS	VOLUME	STORAGE	SHELF LIFE <sup>1</sup>	CODE
Hank's Balanced Salts	W/ calcium, magnesium. W/o phenol red. Sterile filtered.	500ml	RT	4 Years	BHL-001-500ML
Hank's Balanced Salts	W/ phenol red. W/o calcium and magnesium. Sterile filtered.	500 ml	RT	4 Years	BHL-002-500ML
Hank's Balanced Salts	W/ calcium and magnesium. W/o phenol red. Sterile filtered.	500 ml	RT	4 Years	BHL-003-500ML
Dulbecco's PBS	W/ calcium and magnesium. Sterile filtered.	500ml	RT	4 Years	BDL-001-500ML
Dulbecco's PBS	W/ calcium and magnesium. Sterile filtered.	2.5L	RT	4 Years	BDL-001-2.5L
Dulbecco's PBS	W/ calcium and magnesium. Sterile filtered.	10L	RT	4 Years	BDL-001-10L

<sup>1</sup> Shelf Life from DOM

## ORDERING INFORMATION

PRODUCT	OPTIONS	VOLUME	STORAGE	SHELF LIFE <sup>1</sup>	CODE
Dulbecco's PBS	W/ calcium and magnesium. Powder.	10L	RT	4 Years	BDP-001-10L
Dulbecco's PBS	W/ calcium and magnesium. Powder.	50L	RT	4 Years	BDP-001-50L
Dulbecco's PBS (10X)	10X DPBS w/o calcium and magnesium. Sterile filtered.	500 ml	RT	4 Years	BDL-002-500ML
Dulbecco's PBS	W/ calcium and magnesium.	500 ml	RT	4 Years	BDL-003-500ML
HEPES Solution	1M solution (238.3 g/L HEPES) in purified water. Sterile filtered.	100ml	RT	4 Years	BHL-001-100ML
Purified Water	18 mega-ohm, purified water. Cell culture tested. Sterile filtered.	500 ml	RT	4 Years	BWL-001-500ML
Sodium Bicarbonate Solution	7.5% solution (75 mg/ml) in purified water. Sterile filtered.	100 ml	RT	4 Years	BBL-001-100ML

<sup>1</sup> Shelf Life from DOM