



# Common Life Sciences Buffer Recipes

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## Phosphate Buffered Saline (PBS), 10X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Potassium Chloride	KCl	2g	10g	20g	40g	<b>BP366-500</b>	500g
Sodium Chloride	NaCl	80g	400g	800g	1600g	<b>BP358-1</b>	1kg
Sodium Phosphate (Dibasic)	Na <sub>2</sub> HPO <sub>4</sub>	14.4g	72g	144g	288g	<b>BP332-1</b>	1kg
Potassium Phosphate (Monobasic)	KH <sub>2</sub> PO <sub>4</sub>	2.4g	12g	24g	48g	<b>BP362-500</b>	500g
Hydrochloric Acid, 1.0 M	HCl	pH to 7.4	pH to 7.4	pH to 7.4	pH to 7.4	<b>SA48-500</b>	2.5L
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## Tris Buffered Saline (TBS), 10X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>	30g	150g	300g	600g	<b>BP152-5</b>	5kg
Sodium Chloride	NaCl	80g	400g	800g	1600g	<b>BP358-1</b>	1kg
Potassium Chloride	KCl	2g	10g	20g	40g	<b>BP366-500</b>	500g
Hydrochloric Acid, 1.0 M	HCl	pH to 7.4	pH to 7.4	pH to 7.4	pH to 7.4	<b>SA48-500</b>	2.5L
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## Tris Borate EDTA (TBE), 10X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>	108g	540g	1080g	2160g	<b>BP152-5</b>	5kg
Boric Acid	H <sub>3</sub> BO <sub>3</sub>	55g	275g	550g	1100g	<b>BP168-1</b>	1kg
EDTA	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	9.3g	46.5g	93g	186g	<b>BP118-500</b>	500g
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## Tris Acetate EDTA (TAE), 10X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>	48.4g	242g	484g	968g	<b>BP152-5</b>	5kg
Glacial Acetic Acid	CH <sub>3</sub> CO <sub>2</sub> H	11.4mL	57mL	114mL	228mL	<b>BP2401-500</b>	500g
EDTA	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	3.72g	18.6g	37.2g	74.4g	<b>BP118-500</b>	500g
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## Saline Sodium Citrate (SSC), 20X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Sodium Chloride	NaCl	175.3g	876.5g	1753g	3506g	<b>BP358-1</b>	1kg
Sodium Citrate	Na <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub>	88.2g	441g	882g	1764g	<b>BP327-1</b>	1kg
Hydrochloric Acid, 1.0 M	HCl	pH to 7.0	pH to 7.0	pH to 7.0	pH to 7.0	<b>SA48-500</b>	2.5L
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## Western Transfer Buffer (Tris Glycine SDS)

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>	36.35g	181.75g	363.5g	727g	<b>BP152-5</b>	5kg
Glycine	NH <sub>2</sub> CH <sub>2</sub> COOH	150g	750g	1500g	3000g	<b>BP381-5</b>	5kg
Sodium Dodecyl Sulfate (SDS)	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>11</sub> OSO <sub>3</sub> Na	4g	20g	40g	80g	<b>BP166-500</b>	500g
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L

## TE, 10X (pH 7.5)

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>	12.1g	60.5g	121.1g	242.2g	<b>BP152-5</b>	5kg
EDTA	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	3.7g	18.5g	37g	74g	<b>BP118-500</b>	500g
Hydrochloric Acid, 1.0 M	HCl	pH to 7.5	pH to 7.5	pH to 7.5	pH to 7.5	<b>SA48-500</b>	2.5L
Molecular Biology Grade Water	H <sub>2</sub> O	To 1L	To 5L	To 10L	To 20L	<b>BP2819-4</b>	4L



# Ready-to-Use Buffers

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PBS		
Description	Cat. No.	Pack Size
1X PBS	BP2438-4	4L
10X PBS	BP399-1	1L

TBS		
Description	Cat. No.	Pack Size
1X TBS (pH 7.4)	BP2472-1	1L
10X TBS (pH 7.4)	BP2471-1	1L

TBE		
Description	Cat. No.	Pack Size
1X TBE	BP2430-1	1L
10X TBE	BP1333-1	1L

TAE		
Description	Cat. No.	Pack Size
1X TAE	BP2434-4	4L
10X TAE	BP1335-1	1L

SSC		
Description	Cat. No.	Pack Size
20X SSC	BP1325-1	1L

Tris Glycine SDS		
Description	Cat. No.	Pack Size
10X TGS	BP1341-1	1L
10% SDS	BP2436-1	1L
20% SDS	BP1311-1	1L
10X TG	BP1306-1	1L

Tris Buffer Solutions		
Description	Cat. No.	Pack Size
Tris HCl (pH 7.0)	BP1756-500	500mL
Tris HCl (pH 7.5)	BP1757-500	500mL
Tris HCl (pH 8.0)	BP1758-500	500mL
1X Tris EDTA (pH 7.4)	BP2476-500	500mL
1X Tris EDTA (pH 7.6)	BP2474-500	500mL
1X Tris EDTA (pH 8.0)	BP2473-500	500mL

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