



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	BP366-500	500g
Sodium Chloride	NaCl	80g	400g	800g	1600g	BP358-1	1kg
Sodium Phosphate (Dibasic)	Na ₂ HPO ₄	14.4g	72g	144g	288g	BP332-1	1kg
Potassium Phosphate (Monobasic)	KH ₂ PO ₄	2.4g	12g	24g	48g	BP362-500	500g
Hydrochloric Acid, 1.0 M	HCl	pH to 7.4	pH to 7.4	pH to 7.4	pH to 7.4	SA48-500	500mL
Molecular Biology Grade Water	H ₂ O	To 1L	To 5L	To 10L	To 20L	BP2819-4	4L

Tris Buffered Saline (TBS), 10X

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

Tris Borate EDTA (TBE), 10X

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

Tris Acetate EDTA (TAE), 10X

Description	Molecular Formula	1L	5L	10L	20L	Cat. No.	Pack Size
Tris Base	NH ₂ C(CH ₂ OH) ₃	48.4g	242g	484g	968g	BP152-5	5kg
Glacial Acetic Acid	CH ₃ CO ₂ H	11.4mL	57mL	114mL	228mL	BP2401-500	500g
EDTA	C ₁₀ H ₁₆ N ₂ O ₈	3.72g	18.6g	37.2g	74.4g	BP118-500	500g
Molecular Biology Grade Water	H ₂ O	To 1L	To 5L	To 10L	To 20L	BP2819-4	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	BP358-1	1kg
Sodium Citrate	Na ₃ C ₆ H ₅ O ₇	88.2g	441g	882g	1764g	BP327-1	1kg
Hydrochloric Acid, 1.0 M	HCl	pH to 7.0	pH to 7.0	pH to 7.0	pH to 7.0	SA48-500	500mL
Molecular Biology Grade Water	H ₂ O	To 1L	To 5L	To 10L	To 20L	BP2819-4	4L

Western Transfer Buffer (Tris Glycine SDS)

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

TE, 10X (pH 7.5)

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