

Tube #	Cryoprotectant	M _r	CAS #	Formula	Class
1.	100% (+/-)-2-Methyl-2,4-pentanediol	118.18	107-41-5	CH ₃ CH(OH)CH ₂ C(CH ₃) ₂ OH	Organic, Non-volatile
2.	6.0 M 1,6-Hexanediol	118.18	629-11-8	HO(CH ₂) ₆ OH	Organic, Non-volatile
3.	100% 1,2-Propanediol	76.09	57-55-6	CH ₃ CH(OH)CH ₂ OH	Organic, Non-volatile
4.	100% 2,3-Butanediol	90.12	513-85-9	CH ₃ CH(OH)CH(OH)CH ₃	Organic, Non-volatile
5.	50% w/v NDSB-201	201.26	15471-17-7	C ₈ H ₁₁ NO ₃ S	Non-detergent
6.	6.0 M L-Proline	115.13	147-85-3	C ₅ H ₉ NO ₂	Osmolyte
7.	4.0 M Trimethylamine N-oxide dihydrate	111.14	62637-93-8	(CH ₃) ₃ NO • 2H ₂ O	Osmolyte
8.	100% Glycerol	92.09	56-81-5	HOCH ₂ CH(OH)CH ₂ OH	Polyol
9.	100% Ethylene glycol	62.07	107-21-1	HOCH ₂ CH ₂ OH	Polyol
10.	50% v/v Diethylene glycol	106.12	111-46-6	(HOCH ₂ CH ₂) ₂ O	Polyol
11.	100% Polyethylene glycol 200	190 - 210	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer / Polyol
12.	100% Polyethylene glycol 400	380 - 420	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer / Polyol
13.	100% Polyethylene glycol monomethyl ether 550	550	9004-74-4	CH ₃ O(CH ₂ CH ₂ O) _n H	Polymer / Polyol
14.	80% v/v Polyethylene glycol 600	570 - 630	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer / Polyol
15.	50% w/v Polyethylene glycol 1,000	950 - 1050	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer
16.	50% w/v Polyethylene glycol 3,350	3015 - 3685	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer
17.	50% w/v Polyethylene glycol 4,000	3,500 - 4,500	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer
18.	50% w/v Polyethylene glycol monomethyl ether 5,000	5,000	9004-74-4	CH ₃ O(CH ₂ CH ₂ O) _n H	Polymer
19.	50% w/v Polyethylene glycol 8,000	7,000 - 9,000	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer
20.	50% w/v Polyethylene glycol 10,000	8,500 - 11,500	25322-68-3	H(OCH ₂ CH ₂) _n OH	Polymer
21.	50% w/v Polyvinylpyrrolidone K 15	10,000	9003-39-8	(C ₆ H ₉ NO) _n	Polymer
22.	50% v/v Pentaerythritol propoxylate (5/4 PO/OH)	426	9051-49-4	C[CH ₂ [OCH ₂ CH(CH ₃) ₁ OH] ₄ N~ 5	Polymer
23.	100% Polypropylene glycol P 400	N/A	25322-69-4	N/A	Polymer
24.	100% Dimethyl sulfoxide (DMSO)	78.13	67-68-5	(CH ₃) ₂ SO	Solvent

Storage:

CryoPro reagents may be stored at -20 to 4°C.

Allow the reagents to return to working temperature and mix well before use.

*CryoPro contains 48 unique water soluble cryoprotectants for cryocrystallography.
Reagents formulated in Type 1+ ultrapure grade water, no pH adjustment except 39 and 44 titrated using NaOH.*



Solutions for Crystal Growth

Tube #	Cryoprotectant	M _r	CAS #	Formula	Class
25.	70% w/v D-(+)-Sucrose	342.30	57-50-1	C ₁₂ H ₂₂ O ₁₁	Sugar
26.	70% w/v D-Sorbitol	182.17	50-70-4	C ₆ H ₁₄ O ₆	Sugar
27.	30% w/v D-(+)-Maltose monohydrate	360.32	6363-53-7	C ₁₂ H ₂₂ O ₁₁ • H ₂ O	Sugar
28.	35% w/v meso-Erythritol	122.13	149-32-6	HOCH ₂ [CH(OH)] ₂ CH ₂ OH	Sugar
29.	70% w/v Xylitol	152.15	87-99-0	HOCH ₂ [CH(OH)] ₃ CH ₂ OH	Sugar
30.	15% w/v myo-Inositol	180.16	87-89-8	C ₆ H ₁₂ O ₆	Sugar
31.	20% w/v D-(+)-Raffinose pentahydrate	594.51	17629-30-0	C ₁₈ H ₃₂ O ₁₆ • 5H ₂ O	Sugar
32.	50% w/v D-(+)-Trehalose dihydrate	378.33	6138-23-4	C ₁₂ H ₂₂ O ₁₁ • 2H ₂ O	Sugar
33.	70% w/v D-(+)-Glucose monohydrate	198.17	14431-43-7	C ₆ H ₁₂ O ₆ • H ₂ O	Sugar
34.	5.0 M Lithium acetate dihydrate	102.02	6108-17-4	CH ₃ COOLi • 2H ₂ O	Salt
35.	10.0 M Lithium chloride	42.39	7447-41-8	LiCl	Salt
36.	4.0 M Lithium formate monohydrate	69.97	6108-23-2	HCO ₂ Li • H ₂ O	Salt
37.	8.0 M Lithium nitrate	68.95	7790-69-4	LiNO ₃	Salt
38.	2.0 M Lithium sulfate monohydrate	127.96	10102-25-7	Li ₂ SO ₄ • H ₂ O	Salt
39.	3.4 M Sodium malonate pH 7.0	104.06	141-82-2	C ₃ H ₄ O ₄	Salt
40.	3.4 M Magnesium acetate tetrahydrate	214.46	16674-78-5	Mg(CH ₃ COO) ₂ • 4H ₂ O	Salt
41.	5.0 M Sodium chloride	58.44	7647-14-5	NaCl	Salt
42.	7.0 M Sodium formate	68.01	141-53-7	CHNaO ₂	Salt
43.	7.0 M Sodium nitrate	84.99	7631-99-4	NaNO ₃	Salt
44.	100% Tacsimate™ pH 7.0	N/A	N/A	N/A	Salt
45.	1.0 M Sodium sulfate decahydrate	322.20	7727-73-3	Na ₂ SO ₄ • 10H ₂ O	Salt
46.	50% v/v Ethylene glycol, 25% w/v NDSB-201	N/A	N/A	N/A	Mixture
47.	30% w/v Polyethylene glycol 3,350, 20% v/v Glycerol	N/A	N/A	N/A	Mixture
48.	30% v/v Polyethylene glycol 400, 10% w/v Polyethylene glycol 20,000, 5% v/v Glycerol, 5% w/v NDSB-201	N/A	N/A	N/A	Mixture

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