





























**VOLUMETRIC
SOLUTIONS
TRACEABLE TO
NIST**

BIOCHEM CHEMOPHARMA
Laboratory Reagents & Fine Chemicals

EDTA DI-SODIUM SALT 0.1 M (0.2N)	Standardized solution traceable to NIST	$C_{10}H_{14}N_2O_8 \cdot 2Na \cdot 2H_2O$	MW=336.21	1 L
Product code: BVS03002 C.A.S: 6381-92-6 EINECS: 205-358-3				
Appearance	Clear solution			
pH (20°C)	7.0 - 8.0			
Molarity	0,0998-0.1002M			
EDTA DI-SODIUM SALT 0.5 M (1N)	Standardized solution traceable to NIST	$C_{10}H_{14}N_2O_8 \cdot 2Na \cdot 2H_2O$	MW=336.21	1 L
Product code: BVS03010 C.A.S: 6381-92-6 EINECS: 205-358-3				
			H314-H373 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310-P501	
Tolerance	+/- 0.0005M			
Appearance	Clear solution			
The standardisation material (calcium carbonate) is traceable to NIST Standard Reference Material zinc				
HYDROCHLORIC ACID 0.1M (0.1N)	Standardized solution traceable to NIST	HCl	MW=36.46	1 L
Product code: BVS04001 C.A.S: 7647-01-0 EINECS: 231-595-7				
Normality	0.1N=N/10=0.1M			
Appearance	Clear solution			
HYDROCHLORIC ACID 1M (1N)	Standardized solution traceable to NIST	HCl	MW=36.46	1 L
Product code: BVS04010 C.A.S: 7647-01-0 EINECS: 231-595-7				
			H314-H318 P260h-P303-P361- P353-P305-P351- P338-P301-P330 - P331-P405-P501a	
Appearance	A clear colorless liquid			
Titration factor	0.998 - 1.002			
HYDROCHLORIC ACID 2M (2N)	Standardized solution traceable to NIST	HCl	MW=36.46	1 L
Product code: BVS04020 C.A.S: 7647-01-0 EINECS: 231-595-7				
Appearance	A clear colorless liquid			
Titration factor	0.998 - 1.002			
IODINE 0.5 M (1N)	Standardized solution traceable to NIST	I2	MW=253.81	1 L
Product code: BVS05010 C.A.S: 7553-56-2 EINECS: 231-442-4				
Concentration	0.5 M +/- 0.0005M (1.0N)			
The concentration of this volumetric solution was determined with Sodium Thiosulfate. Secondary reference material traceable to standard reference material of NIST Arsenic Trioxide, no.841.				
NITRIC ACID 1M (1N)	Standardized solution traceable to NIST	I2	MW=253.81	1 L
Product code: BVS05110 C.A.S: 7697-37-2 EINECS: 231-714-2				
			H330-H314 P280-P301+P330+P331-P302+P352-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233-P501	
Certified Value	0.999 + 0.002* (at 25°C)			
Analysis (T)	Against Sodium Carbonate			
PERCHLORIC ACID 0.1M (0.1N)	Standardized solution traceable to NIST	$HClO_4$	MW=100.46	1 L
Product code: BVS06101 C.A.S: 7601-90-3 EINECS: 231-512-4				
				H302-H272-H314 P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P370+P378-P501
Appearance	A clear colourless liquid			
Titration factor	0.998 - 1.002			
PERCHLORIC ACID 1M (1N)	Standardized solution traceable to NIST	$HClO_4$	MW=100.46	1 L
Product code: BVS06110 C.A.S: 7601-90-3 EINECS: 231-512-4				
				H302- H290- H314-H373 P234-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310-P501
Appearance	A clear colourless liquid			
Normality	0.1N +/- 0.0005N			
POTASSIUM CHLORIDE 1M (1N)	Standardized solution traceable to NIST	KCl	MW=74.55	1 L
Product code: BVS07010 C.A.S: 7447-40-73 EINECS: 231-211-8				
Certified Value & Uncertainty (mol/L)	0.999 + 0.008* (at 25°C)			
Analysis (T)	Against Silver Nitrate (AgNO3)			

POTASSIUM CHROMATE 0.0333 M (0.1N)	Standardized solution traceable to NIST	CrK2O4 MW=194.19	1 L
Product code: BVS08001 C.A.S: 7789-00-6 EINECS: 232-140-5	 	H412-H350i-H317 P201-P261-P273-P280-P302+P352-P308+P313-P333+P313-501	
Appearance Normality	Clear yellow colored solution 0.1N +/- 0.1%		
POTASSIUM DICHROMATE 0.0167M (0.1N)	Standardized solution traceable to NIST	Cr2K2O7 MW=294.182	1 L
Product code: BVS08101 C.A.S: 7778-50-9 EINECS: 231-906-6		H412-H350-H319- H340-H360FD- H334-H315- H317- H373 P201-P280-P302+P352-P304+P340-P305+P351+P338-P308+P313-P342+P311-P501	
Certified Value & Uncertainty (mol/L) Analysis (T)	0.01665 + 0.00008* (at 25°C) Against Sodium Thiosulphate		
POTASSIUM DICHROMATE 0.0167M (1N)	Standardized solution traceable to NIST	Cr2K2O7 MW=294.182	1 L
Product code: BVS08110 C.A.S: 7778-50-9 EINECS: 231-906-6		H412-H350-H319- H340-H360FD- H334-H315- H317- H373 P201-P280-P302+P352-P304+P340-P305+P351+P338-P308+P313-P342+P311-P501	
Certified Value & Uncertainty (mol/L) Analysis (T)	0.1670 + 0.001* (at 25°C) Against Sodium Thiosulphate		
POTASSIUM HYDROXIDE 0.1 M (0.1N)	Standardized solution traceable to NIST	KOH MW=56.11	1 L
Product code: BVS09001 C.A.S: 1310-58-3 EINECS: 215-181-3	 	H315-H319-H314 P264-P280-P302+P352-P305+P351+P338-P332+P313-P337	
Normality Appearance Standardized solution	0.1N=N/10=0.1M Clear solution at 20°C		
POTASSIUM HYDROXIDE 1 M (1N)	Standardized solution traceable to NIST	KOH MW=56.11	1 L
Product code: BVS09010 C.A.S: 1310-58-3 EINECS: 215-181-3	 	H314-H315-H319 P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310	
Actual concentration The concentration of this volumetric solution was determined with Potassium Hydrogen Phthalate. Reference material traceable to standard reference material of NIST Potassium Hydrogen Phthalate, no. 841.	1.002M		
POTASSIUM PERMANGANATE 0.02 M (0.1N)	Standardized solution traceable to NIST	KMnO4 MW=158.03	1 L
Product code: BVS11001 C.A.S: 7722-64-7 EINECS:	 	H412 P273-P501	
Tolerance +/- Appearance The standardisation material (sodium thiosulphate) is a secondary reference material traceable to NIST Standard Reference Material arsenic trioxide, number 83d.	0.0005M Purple solution		
POTASSIUM PERMANGANATE 0.2 M (1N)	Standardized solution traceable to NIST	KMnO4 MW=158.03	1 L
Product code: BVS11010 C.A.S: 7722-64-7 EINECS:	 	H411-H361d P201-P202-P273-P280-P308+P313-P391-P405-P501	
Certified Value & Uncertainty (mol/L) Analysis (T)	0.1999 + 0.0005* (at 25°C) Against Sodium thiosulphate		
SODIUM CHLORIDE 0.1 M (0.1N)	Standardized solution traceable to NIST	NaCl MW=58.44	1 L
Product code: BVS15001 C.A.S: 7647-14-5 EINECS: 231-598-3			
Tolerance +/- Appearance The standardisation material (sodium chloride) is traceable to NIST Reference Standard Material potassium chloride, number 999.	0.0005M Clear solution		
SODIUM CHLORIDE 1 M (1N)	Standardized solution traceable to NIST	NaCl MW=58.44	1 L
Product code: BVS15010 C.A.S: 7647-14-5 EINECS: 231-598-3			
Certified Value & Uncertainty (mol/L) Analysis (T)	1.001 + 0.008* (at 25°C) Against Silver Nitrate		

SODIUM HYDROXIDE 0.1 M (0.1N)	Standardized solution traceable to NIST	NaOH MW=40.00	1 L
Product code: BVS16001 C.A.S: 1310-73-2 EINECS: 215-185-5		H290 P234-P390-P406	
Normality	0.1N=N/10=0.1M		
Appearance	Clear solution		
Standardized solution at 20°C.			
SODIUM HYDROXIDE 1 M (1N)	Standardized solution traceable to NIST	NaOH MW=40.00	1 L
Product code: BVS16010 C.A.S: 1310-73-2 EINECS: 215-185-5		H314-H318 P260h-P303+P361+P353-P305+P351+P338- P301+P330+P331-P405-P501a	
Appearance	A clear colorless liquid		
Titration factor	0.998-1.002		
SODIUM THIOSULFATE 0.1M (0.1N)	Standardized solution traceable to NIST	Na2S2O3 MW=158.11	1 L
Product code: BVS17001 C.A.S: 7772-98-7 EINECS:			
Normality	0.1N=N/10=0.1M		
Titration factor	0,995-1,005		
Appearance	Clear solution		
Standardized solution at 20°C			
SODIUM THIOSULFATE 0.1M (0.1N)	Standardized solution traceable to NIST	Na2S2O3 MW=158.11	1 L
Product code: BVS17001 C.A.S: 7772-98-7 EINECS:			
Normality	0.1N=N/10=0.1M		
Titration factor	0,995-1,005		
Appearance	Clear solution		
Standardized solution at 20°C			
SODIUM THIOSULFATE 1M (1N)	Standardized solution traceable to NIST	Na2S2O3 MW=158.11	1 L
Product code: BVS17010 C.A.S: 7772-98-7 EINECS:			
Certified Value & Uncertainty (mol/L) Analysis (T)	1.001 + 0.001* (at 25°C) Against Potassium Iodate		
SULFURIC ACID 0.05 M (0.1N)	Standardized solution traceable to NIST	H2SO4 MW=98.08	1 L
Product code: BVS18001 C.A.S: 7664-93-9 EINECS: 231-639-5			
Appearance	Clear solution		
pH (20°C)	7.0 8.0		
Molarity	0,0998 0.1002M		
SULFURIC ACID 0.1 M (0.2N)	Standardized solution traceable to NIST	H2SO4 MW=98.08	1 L
Product code: BVS18002 C.A.S: 7664-93-9 EINECS: 231-639-5		H319-H315 P264-P280-P302+P352-P305+P351+P338- P332+P313-P337+P313	
Appearance	Clear colorless solution		
Molarity	0.0995 - 0.1005 M		
SULFURIC ACID 0.25 M (0.5N)	Standardized solution traceable to NIST	H2SO4 MW=98.08	1 L
Product code: BVS18005 C.A.S: 7664-93-9 EINECS: 231-639-5			
Normality	1N=N/1=0.5M		
Appearance	Clear solution		
Standardized solution at 20°C.			