

Titrimetry or measurement by titration includes a set of widely used analytical techniques, some of which have been in widespread use for almost 200 years. Volumetric titration dates back at least to the work of French chemist Gay- Lussac, who devised a method in 1835 to determine the purity of Silver, using standardised Sodium Chloride as the titrant.

Asset NO.

The principle of all titrimetry involves the determination of the quantity of the reagent of known concentration (titrant), that is required to react completely with an unknown analyte. Volumetric titrimetry involves measuring the volume of the solution of known concentration (titrant) consumed, gravimetric titrimetry measures the mass of the reagent consumed and coulometric titration measures a direct electrical current of known magnitude that consumes the analyte. In coulometry, the time it takes to complete the electrochemical reaction, is the measurand.

An analytical volumetric solution (also called titrant, standard titrant or standard solution) is a reagent of known concentration that is added from a burette or other dispensing apparatus to a sample (analyte) until a reaction between the two liquids is judged to be complete. This completeness (end point) is usually observed in a manual titration by the production of a physical change read visually as the titrant is added to the analyte. Such a change may include an appearance, disappearance or change of colour or appearance/disappearance of turbidity (cloudiness). Nowadays, instruments are widely used to detect the end points by detection of any of several properties or characteristics of the analyte solution including colour, turbidity, temperature, refractive index, potential difference, current or conductivity. In simple terms titrimetry is broadly divided into two main classifications - manual and instrumental - irrespective of how the end point is detected. In the case of manual titrations, indicator, titrant or analyte change of colour is by far the most important method of end point detection. Therefore, the availability of a wide selection of indicators is an integral part of any offering of Analytical Volumetric Solutions. This catalogue carries by far the most extensive offering of both indicators and titrants available in the market place. The end point in automatic titration is indicated most commonly by a change in potential of an electrode that responds to the concentration of the reagent or the analyte.

# Analysis by titration brings a large number of benefits to the analyst including the following:

- It is an absolute method
- Relatively easy to perform (although high accuracy manual titration requires practice, dexterity, experience and sound judgement)
- Rapid, cheap and versatile
- Accurate, reproducible, traceable and comparable

Furthermore, titration reactions should exhibit defined stoichiometry, be quantitative, establish equilibrium that is definite and fast, and provide unambiguous results.

#### **Types of Titration Reactions**

#### Acid/Base reactions (also called neutralisation titrations)

These are used to determine either the amount of acid/base in an analyte or substances that can be converted to an acid/base. They may also sometimes be used to track the progress of chemical reactions that produce or consume hydrogen ions. The titrants are always strong acids or bases and include hydrochloric acid, perchloric acid, sulphuric acid, sodium hydroxide, potassium hydroxide and sometimes barium hydroxide. Weak acids or bases are not used because they react incompletely with the analyte. The colour indicator used in an acid base titration is a weak acid/base itself which in its undissociated form differs in colour from its conjugate acid or base form. Typical elements suitable to this type of titration method include carbon, nitrogen, chlorine, bromine and fluorine. Pretreatment of these elements converts the element to an inorganic acid or base that is then titrated. An example is nitrogen which occurs in a wide range of forms both organic, inorganic or as a constituent of biological materials. Therefore, a methodology for nitrogen measurement in amine groups such as the Kjeldahl method is extremely important in determining the protein content in grains, meats, and other human or animal foodstuffs. In addition to amines, others like esters and hydroxyl functional groups can also be determined. In addition, inorganic compounds such as carbonates, ammonium salts and several other NOx species can be determined.

#### Fields of Application

- Acid content in wine, milk, ketchup, fruit juice (etc)
- Content of HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, NaOH, KOH
- · Alkalinity determination in water
- TAN and TBN in petroleum products, edible or inedible oils and fats
- Determination of boric acid in cooling fluids of nuclear power stations
- · Determination of free or total acidity in plating baths
- · Determination of active ingredients in drugs or raw materials for the pharmaceutical industry
- Total nitrogen determination by Kjeldahl
- · Wide range of inorganic, organic or biological species that possess inherent acidic or basic properties
- Use of chemical treatment that converts an analyte to an acid or base followed by titration with standardised strong acid or base

#### Oxidation/Reduction Titrations

These titrations may be performed manually or potentiometrically. In manual titrations, if indicators are used, they change colour upon being oxidized or reduced, independently of the chemical nature of the titrant or analyte. Instead, they depend on changes in the electropotential of the oxidation reduction system. Examples of such indicators include:

- Iron (III) complexes of orthophenothrolines
- Starch solutions
- · Potassium thiocyanate

The principle of this type of titration involves a reaction between an oxidising and reducing pair, e.g. titration of iron (II) with cerium (IV) sulphate

- Oxidising agents (examples)
  - lodine (lodometry), potassium dichromate, potassium permanganate, potassium bromate, cerium (IV) ammonium nitrate, cerium (IV) ammonium sulphate, cerium (IV) hydrogen sulphate, cerium hydroxide, chlorine
- Reducing agents (examples)
  - Sodium thiosulphate, oxalic acid, iron ammonium (II) sulphate (Mohr's salt), hydrogen peroxide, phenylarsine oxide (PAO), iron (II) ethylene diamine sulphate

#### Fields of Application

- Environment
  - COD of water
  - Oxidation capacity of water by permanganate.
- Food and beverage
  - Determination of free and total SO<sub>2</sub> in water, wine, alcohol, dried fruit etc.

#### Pharmaceuticals

- Vitamin C determination.
- Surface treatment
- Titration of copper or tin using iodine.
- Titration of chromium (VI)

#### Petrochemicals

- Determination of water in hydrocarbons

#### Complexometric Titrations

Complexometric reactions have many applications in chemical analysis and in science in general. Their use in titrometry is a very important one of these applications. The reaction end point is detected either potentiometrically or manually using an indicator, whereby, a metal ion reacts appropriately with a ligand to form a complex. EDTA is the most widely used titrant in complexometric reactions although the use of other chemicals similar to EDTA are described in the literature; e.g. nitrilotriacetic acid. Generally, organic dyes that form complexes with metal ions to form chelates are used as indicators, a commonly used one being Eriochrome Black T. Methods have been developed, validated and published for detection or quantification of almost every metal in the periodic table with the exception of the Alkalii metals using EDTA complexation. This includes methods for at least 40 metals developed in our metals laboratory in Reagecon, with more at development or validation stage.

This methodology is regularly used to determine the concentration of divalent cations such as calcium, magnesium, copper, lead, zinc, cadmium, aluminium

#### Fields of application

- Environment
  - Total hardness of water (Ca2+ and Mg2+).
- Surface treatment
  - Determination of Cu<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Zn<sup>2+</sup> in plating baths

#### **Precipitation Titrations**

This analytical methodology is based on reactions that yield compounds of limited solubility. There is not a very wide range of precipitating agents that can be used gainfully in titrometry and silver nitrate is by far the most important. These titrations, (also called argentometric titration) is where silver nitrate is used as the titrant. Silver nitrate can be used for determination of halides (CI-, I-, Br-) and anions that behave like halides (SCN-, CN-, CNO-). It can also be used for determination of Mercaptans and organic materials that include Fatty Acids. Indicators typically used for precipitation titrations include sodium chromate, fluorescein and iron (III). A wide range of standardised silver nitrate titrants are available, some of which are standardised to specifically give a one to one equivalence with sodium chloride in various food stuffs.

#### Fields of Application

- Environment
  - Determination of chloride in water
- Food and beverage
  - Determination of chloride in many finished products (cooked meats, dairy products, etc.)
- Precious metals
  - Determination of silver
- Pharmaceuticals
  - Titration of halides

Description	Product No. 1L	Product No. 5L
Acetic acid 0.1M	CH20101	CH20105
Acetic acid 0.5M	CH20051	CH20055
Acetic acid 1.0M	CH21001	CH21005
Acetic acid 2.0M	CH22001	CH22005
Ammonia 0.1M	NH20101	NH20105
Ammonium Chloride 0.1M	NHCl011	
Ammonium Hydroxide 0.5M	NH2051	
Ammonium Hydroxide 6M	NH32601	
Ammonium Iron (II)Sulphate 0.1M	NHS2011 AS2051	A 22055
Ammonium sulphate 0.5M	A52051 AT21F	AS2055
Ammonium Thiocyanate 1.0M Barium chloride 0.05M	BACL20051	BACL20055
Barium chloride 0.55M	BACL20031	BACL20055
Barium chloride 0.3M	BACL2101	BACL2035 BACL2105
Barium Perchlorate 0.005M Alcoholic Solution	BACLO200051	DAOLZ 103
Bromine (Bromate/bromide) 0.05M	BR20101	BR20105
Calcium acetate 1.0M	CAAC2101	CAAC2105
Calcium chloride 0.005M	CACL20051	CACL20055
Calcium chloride 0.005M	CACL20031	CACL20035
Calcium chloride 0.0125M	CACL20011	CACL20013
Calcium chloride 0.02M	CACL2001231	CACL2001233
Calcium chloride 0.5M	CACL2051	CACL2055
Calcium Chloride 1.0M	CACL101	O/ IOEE000
Cerium IV sulphate 0.05M	CS20051	CS20055
Cerium IV sulphate 0.1M	CS2011	CS2015
Cerium IV sulphate 0.2M	CS20251	CS20255
Cerium IV sulphate 1.0M	CS2101	CS2105
Ditric Acid 1.0M	CH2101	
Copper II Chloride 0.5M	CUCL2051	CUCL2055
Copper II sulphate 0.1M	CUS02011	CUS02015
Copper II sulphate 0.5M	CUS02051	CUS02055
Cupric solution 0.168M	CU201681	CU201685
Di-Potassium Oxalate 0.05M	KO20051	KO20055
EDTA (DiSodium salt) 0.01M	ED20011	ED20015
EDTA (DiSodium salt) 0.02M	ED20021	
EDTA (DiSodium Salt) 0.027M	EDB200271	
EDTA (DiSodium salt) 0.05M	ED20051	
EDTA (DiSodium salt) 0.1M	ED2011	ED2015
lyamine 1622 -Benzethonium chloride 0.004M	HY0041	HY0045
lyamine 1622 -Benzethonium chloride 0.04M	HY041	HY045
Hydrochoric Acid 0.01M	H20011	H20015
Hydrochoric Acid 0.02M	H20021	H20025
Hydrochloric Acid 0.027M	H200271	
Hydrochoric Acid 0.0357M	H2003571	H2003575
Hydrochoric Acid 0.05M	H20051	H20055
Hydrochoric Acid 0.1M	H20101	H20105
Hydrochoric Acid 0.2M	H20201	H20205
Hydrochloric Acid 0.233M		H202335
Hydrochoric Acid 0.25M	H20251	H20255
Hydrochoric Acid 0.357M	H203571	H203575
Hydrochloric Acid 0.5M	H20501	H20505
Hydrochloric Acid 1.0M	H21001	H21005
Hydrochloric Acid 1.8M		H21805
Hydrochloric Acid 2.0M	H22001	H22005
Hydrochloric Acid 3.57M	H23571	H23575
Hydrochloric Acid 3M	H23001	H23005
Hydrochloric Acid 4M		H24005
Hydrochloric Acid 5.0M	H25001	H25005

Description	Product No.	Product No.	Product
	1L	2.5L	5L
Hydrofluoric Acid 0.05M	HF20051		HF20055
Iodine 0.005M	I20005F		111 20000
lodine 0.02365M	I20003F		
		IOOOEM	
lodine 0.05M	12005F	I2005W	
lodine 0.5M	I2050F	I2050W	
Iron (II) Sulphate 0.1M	FES2011		FFOOOS
Iron (II) Sulphate 0.2M	FES2021		FES2025
Iron (III) Chloride 1.0M	FECL211		FECL215
Lactic Acid 0.1M	CH6011		
Lead (II) Acetate 0.05M	PBA20051		PBA20055
Lead (II) Acetate 0.5M	PBA2051		PBA2055
Lead (II) Nitrate 0.5M	PBN02051		PBNO2055
Lead Nitrate 0.01M	PB20011		
Lead Nitrate 0.1M	PB2011		
Lithium Methoxide 0.1M in Toluene/Methanol			
Magnesium Chloride 0.01M	MG20011		MG20015
Magnesium Chloride 0.1M	MG2011		MG2015
Magnesium Sulphate 0.09M	MS0091		
Magnesium Sulphate 0.1M	MGS02011		MGSO2015
Manganese (II) Chloride 0.05M	MNCL20051		MNCL2005
Manganese (II) Chloride 0.5M	MNCL2051		MNCL2055
Mercuric (II) Nitrate 0.05M	HGN20051		
Mercury (I) Nitrate 0.1M	HGN2011		HGN2015
Mercury (II) Nitrate 0.01M	HGN20011		HGN20015
Mercury (II) Nitrate 0.005M	HGN200051		HGN20005
Methanolic HCI 0.5M		MH2050	
Morpholine 0.5M in Methanol		MD2050	
Nickle (II) Chloride 0.05M	NICL20051		NICL20055
Nickle (II) Chloride 0.5M	NICL2051		NICL2055
Nitric Acid 0.01M	NO20011		141022000
Nitric Acid 0.02M	NO20021		NO20025
Nitric Acid 0.1M	NO20101		NO20020
Nitric Acid 1.0M	NO20101		NO20105
Nitric Acid 1.0M	NO21001 NO22001		NO21005 NO22005
Nitric Acid 4.0M	NO24001		NO24005
Nitric Acid 6.0M	NO26001		NOOGOG
Nitric Acid 8.0N 8.0M	NO28001		NO28005
Oxalic Acid 0.025M	OA200251		OA200255
Oxalic Acid 0.05M	OA20051		OA20055
Oxalic Acid 0.1M	OA2011		
Oxalic Acid 0.5M	OA2051		OA2055
Perchloric Acid in 1.4 Dioxan	PD201F	PD201W	
Perchloric Acid in Acetic Acid 0.1M	P2010F	P2010W	
Perchloric Acid in Acetic Acid 0.5M	P2050F		
Phenylarsine Oxide 0.00564M	CH500561		
Phosphorous Tribromide 1M in Dichloromethane		PBR3DCM	
Potassium Biiodate 0.025N	HK200025F		
Potassium Biiodate 0.1N	HK2001F		
Potassium Bromate/Bromide 0.0167M	KB20016F	KB20016W	
Potassium Bromide 0.5M	KBR205F		
Potassium Bromide 1M	KBR21F		
Potassium Chloride 0.01M	KCL20011		
Potassium Chloride 0.2M	KCL2021		KCL2025
Potassium Chloride 0.5M	KCL2051		
Potassium Chloride 1.0M	KCL2101		KCL2105
Potassium Dichromate 0.0167M	KC20016F	KC20016W	
Potassium Dichromate 0.02M	KC20021		
Potassium Dichromate 0.041M	KC20041F	KC20041W	
Potassium Dichromate 0.167M	KC2016F	KC2016W	
1 Otabbian Diomontate 0.107 W	1020101	1.0201000	

Description	Product No. 1L	Product No. 2.5L	Product No. 5L
Potassium Ferricyanide 0.1M	KFE2011		KFE2015
Potassium Hydrogen Phythalate 0.1M	PHP2011		PHP2015
Potassium Hydroxide 0.05M	KOH20051		KOH20055
Potassium Hydroxide 0.1M	KOH20101		KOH20105
Potassium Hydroxide 0.1M in Ethanol	ETKOH01F	ETKOH01W	1101.20100
Potassium Hydroxide 0.1M in Methanol	MKOH01F	MKOH01W	
Potassium Hydroxide 0.223M	WINGITION	WINCOTION	KOH202235
Potassium Hydroxide 0.23M			KOH20235
Potassium Hydroxide 0.5M	KOH20501		KOH20505
Potassium Hydroxide 0.5M in Ethanol	ETKOH05F	ETKOHO5W	101120303
Potassium Hydroxide 0.5M in Methanol	MKOH205F	MKOH205W	
Potassium Hydroxide 0.3M III Methanol	KOH21001	IVINOI IZOUVV	KOH21005
,	ETKOH1F	ETKOH1W	KOH21003
Potassium Hydroxide 1.0M in Ethanol	MKOH1F		
Potassium Hydroxide 1.0M in Methanol	WINOFIF	MKOH1W	
Potassium lodate 0.0147M		PI2008W	
Potassium lodate 0.01667M		PI20016W	
Potassium lodate 0.025M		PI20025W	
Potassium Iodate 0.05M		PI2005W	
Potassium Iodate/Iodide 0.00333M	1410044	PII2002W	14100.45
Potassium Iodide 0.1M	KI2011		KI2015
Potassium Iodide 1.0M	KI2101		KI2105
Potassium Iodide 3.0M	K12301		K12305
Potassium Methoxide 0.1M			
Potassium Permanganate 0.01M	PP2001F	PP2001W	
Potassium Permanganate 0.02M	PP2002F	PP2002W	
Potassium Permanganate 0.2M	PP2020F	PP2020W	
Potassium Thiocyanate 0.02M	KT2002F	KT2002W	
Potassium Thiocyanate 0.05M	KT2005F	KT2005W	
Potassium Thiocyanate 0.1M	KT201F	KT201W	
Potassium Thiocyanate 1.0M	KT210F	KT210W	
Silver Nitrate 0.0141M		N20014W	
Silver Nitrate 0.0192N	N20019F		
Silver Nitrate 0.025M	N20025F		
Silver Nitrate 0.0282M		N20028W	
Silver Nitrate 0.02M	N20020F	N20020W	
Silver Nitrate 0.05M	N20050F	N20050W	
Silver Nitrate 0.085M		N20085W	
Silver Nitrate 0.1709M	N201709F	N201709W	
Silver Nitrate 0.1M	N20100F	N20100W	N201005
Silver Nitrate 0.1M in Methanol	MN2010F		
Silver Nitrate 0.5M	N2050F		
Silver Nitrate 1.0M	N21000F	N21000W	
Silver Nitrate in Methanol 0.01M	MN20010F		
Sodium Acetate 0.2M	SA02F		
Sodium Acetate 2.0M L	SA2F		
Sodium acetate solution 0.3M	SA03MOLF1		
Sodium Arsenite 0.005M	SA200005F		
Sodium Arsenite 0.05M	SA2005F		
Sodium Arsenite 0.15M	SA2015F		
Sodium Arsenite 0.5M		SA2005W	
Sodium Carbonate 0.05M	SC20051		SC20055
Sodium Carbonate 0.5M	SC20501		SC20505
Sodium Chloride 0.05M	NACL20051		NACL20055
Sodium Chloride 0.1M	NACL2001		NACL2015
Sodium Chloride 1M	NACL2011		
Sodium Hydroxide (Low in carbonate) 0.1M	S20101LC		S20105LC
Sodium Hydroxide (Low in carbonate) 0.5M	S20501LC		S20505LC
	OLUUU ILU		OZOOOLO

Description	Product No. 1L	Product No. 2.5L	Product I 5L
Sodium Hydroxide 0.01M	S20011	S20015	
Sodium Hydroxide 0.02M	S20021	S20025	
Sodium Hydroxide 0.05M	S20051	S20055	SB200510
Sodium Hydroxide 0.111M	S20111	S20115	
Sodium Hydroxide 0.156M	S20011		
Sodium Hydroxide 0.1M	S20101	S20105	SB20110
Sodium Hydroxide 0.25M	S20251	S20255	
Sodium Hydroxide 0.2M	S20201	S20205	SB202010
Sodium Hydroxide 0.313M	S203131	S203135	02202010
Sodium Hydroxide 0.35465M	S2035461	S2035465	
Sodium Hydroxide 0.5M	S20501	S20505	SB205010
Sodium Hydroxide 0.6M	320001	S2065	02200010
Sodium Hydroxide 1.0M	S21001	S21005	SB210010
Sodium Hydroxide 1.2M	021001	SB21205	SB212010
Sodium Hydroxide 10M	S10001	OBETEOO	05212010
Sodium Hydroxide 2.0M	S22001	S22005	SB220010
Sodium Hydroxide 3.57M	S23571	S23575	SB235710
Sodium Hydroxide 4M	S24001	020010	05200710
Sodium Hydroxide 5.0M	S25001	S25005	SB250010
Sodium Hydroxide 6M	S26001	323003	36230010
Sodium Lauryl (Dodecyl) Sulphate 0.1M	SLS011		
Sodium Methoxide Titrant 0.5M in Methanol	SLSUTI		
Sodium Nitrite 0.1M	NANO011		
Sodium Nitrite 0.1M			
	NANO021	NANIOOFF	
Sodium Nitrite 0.5M	NANO051	NANO055	
Sodium Nitrite 1M	NANO11		
Sodium Nitrite 4M	NANO41		
Sodium Oxalate 0.025M	NAC00251		
Sodium Oxalate 0.05M	NAX0051	NATOOAOS	
Sodium Thiocyanate 0.1M	NAT20101	NAT20105	
Sodium Thiocyanate 1.0M	NAT21001	NAT21005	
Sodium Thiosulphate 0.001M	T200011		
Sodium Thiosulphate 0.0125M	T2001251	T00015	
Sodium Thiosulphate 0.01M	T20011	T20015	TB200110
Sodium Thiosulphate 0.02M	T20021	T000=11	
Sodium Thiosulphate 0.0551M	T2005511	T2005515	
Sodium Thiosulphate 0.05M	T20051	T20055	
Sodium Thiosulphate 0.1M	T20101	T20105	TB201010
Sodium Thiosulphate 1.0M	T21001	T21005	TB210010
Sodium Thiosuphate 2.0M	T22001		
Sulphuric Acid 0.005M	SU200051	01100015	
Sulphuric Acid 0.01M	SU20011	SU20015	
Sulphuric Acid 0.025M	SU200251	011000440=	
Sulphuric Acid 0.0416M	SU2004161	SU2004165	
Sulphuric Acid 0.05M	SU20051	SU20055	
Sulphuric Acid 0.1275M	SU2012751	SU2012755	
Sulphuric Acid 0.128M		SU201285	
Sulphuric Acid 0.13M	SU20131	SU20135	
Sulphuric Acid 0.1M	SU20101	SU20105	
Sulphuric Acid 0.25M	SU20251	SU20255	SUB202510
Sulphuric Acid 0.319M	SU203191	SU203195	
Sulphuric Acid 0.5M	SU20501	SU20505	SUB205010
Sulphuric Acid 0.9M		SU2095	
Sulphuric Acid 1.0M	SU21001	SU21005	SUB210010
Sulphuric Acid 2.5M	SU22501	SU22505	SUB225010
Sulphuric Acid 5.0M	SU25001	SU25005	SUB250010

Description	Product No. 2.5L	Product No. 500ML
Tetra Butylammonium Fluoride 1M in THF CA 5% water soln-2.5L	TBAF125	
Tetra N Butyl Ammonium Hydroxide 0.02M in 50/50 Methanol/Propan-2-ol		TB002H
Tetra n Butyl Ammonium Hydroxide 0.1M in 50/50 Methanol/Propan-2-ol		TB010H
Tetra n Butyl Ammonium Hydroxide 0.5M in 50/50 methanol / Propan-2-ol		TB050H

Description	Product No. 1L	Product No. 5L
Zinc Chloride 0.01M	ZNCL20101	ZNCL20105
Zinc Chloride 0.5M	ZNCL20501	ZNCL20505
Zinc Sulphate 0.02M	ZS021	
Zinc Sulphate 0.05M	ZNS000501	ZNSO00505
Zinc Sulphate 0.1M	ZS011	ZNSO0105

### **Concentrated Volumetric Solutions**

Each Ampoule is supplied in its own box, full instructions are printed on the box.

Description	Ampoule to make 1L
Acetic acid 1.0M	CHC101L
EDTA (DiSodium salt) 0.01M	EDC0011L
EDTA (DiSodium salt) 0.1M	EDC0101L
EDTA 0.05M	ETC0051L
Hydrochoric Acid 0.1M	HC0101L
Hydrochoric Acid 0.2M	HC0201L
Hydrochloric Acid 0.5N 0.5M	HC0501L
Hydrochloric Acid 1.0M	HC1001L
lodine 0.005M	IC00051L
lodine 0.05M	IC0051GL
lodine 0.025M	IC025G1L
Potassium Chloride 0.01M	KCL0101L
Silver Nitrate 0.0282M	NC00281L
Silver Nitrate 0.1M	NC0101L
Ammonia 0.1M	NH4C011L
Ammonia 1.0M	NH4C101L
Ammonium Thiocyanate 0.1M	NHTC011L
Nitric Acid 1.0M	NOC101L
Oxalic Acid 0.05M	OA20051L
Potassium Permanganate 0.02M	PCO021GL
Sodium Hydroxide 0.1M	SC0101L
Sodium Hydroxide 0.5M	SC0501L
Sodium Hydroxide 1.0M	SC1001L
Sulphuric Acid 0.01M	SUC0011L
Sulphuric Acid 0.05M	SUC0051L
Sulphuric Acid 0.5M	SUC051L
Sodium Thiosulphate 0.0125M	TC00121L
Sodium Thiosulphate 0.1M	TC0101L

### **Indicator Solutions**

Product No.	Description	Pack Size
ALRED01	Alizarine Red solution 125mls	125ml
ALREDH	Alizarine Red solution 500mls	500ml
AZVIO01	Azo Violet Indicator, 0.1% (w/v) Alcoholic Solution	125ml
1012602	Bromocresol Green - Methyl Red Mixed Indicator	100ml
BRCGM05	Bromocresol Green Indicator, 0.04% (w/v) in Methanol	500ml
BRCG0105	Bromocresol Green Indicator, 0.1% (w/v) Aqueous Solution	500ml
BRCGIPA0105	Bromocresol Green Indicator, 0.1% (w/v) in IPA	500ml
BRCG105	Bromocresol Green Indicator, 1% (w/v) Aqueous Solution	500ml
BRCG05	Bromocresol Green, 0.04%	500ml
BRPBB02M05	Bromocresol Purple - Bromothymol Blue Mixed Indicator 0.2% (w/v) in Methanol	500ml
BRP01M05	Bromocresol Purple Indicator, 0.1 % (w/w) in Methanol	500ml
BRP0105	Bromocresol Purple Indicator, 0.1% (w/v) Aqueous	500ml
BRP0405	Bromocresol Purple Indicator, 0.4% (w/v) Aqueous	500ml
BRP1M05	Bromocresol Purple Indicator, 1 % (w/w) in Methanol	500ml
BRP105	Bromocresol Purple Indicator, 1% (w/v) Aqueous	500ml
1012701	Bromocresol Purple, 0.04%	100ml
BRBPIPA05	Bromophenol Blue Indicator, 0.04% (w/v) in Isopropyl Alcohol	500ml
BRBP00505	Bromophenol Blue Indicator, 0.05% Aqueous	500ml
BRBP0105	Bromophenol Blue Indicator, 0.1% (w/v) Aqueous Solution	500ml
BRBPIPA0105	Bromophenol Blue Indicator, 0.1% (w/v) in Isopropyl Alcohol	500ml
BRBP0405	Bromophenol Blue Indicator, 0.4% Aqueous	500ml
BRBP0125	Bromophenol Blue, 0.04%	125ml
BRBP05	Bromophenol Blue, 0.04%	500ml
BRTH00205	Bromothymol Blue Indicator, 0.02% (w/v) Aqueous Solution	500ml
BRTHIPA00205	Bromothymol Blue Indicator, 0.02% (w/v) in Isopropyl Alcohol	500ml
BRTHIPA00405	Bromothymol Blue Indicator, 0.04% (w/v) in Isopropyl Alcohol	500ml
BRTH05	Bromothymol Blue, 0.04%	500ml
CALM00505	Calmagite Indicator, 0.05% (w/v) Aqueous Solution	500ml
CALM0105	Calmagite Indicator, 0.1% (w/v) Aqueous Solution	500ml
CALM0605	Calmagite Indicator, 0.6% (w/v) Aqueous Solution	500ml
CALM105	Calmagite Indicator, 1%	500ml
CAUB0105	Caustic Blue Indicator, 0.1% (w/v) Aqueous Solution	500ml
CPR05	Chlorophenol Red, 0.04%	500ml
COR105	Congo Red 0.1%	500ml
COR1005	Congo Red Indicator, 1% (w/v) Aqueous Solution	500ml
CRER0405	Cresol Red Indicator, 0.04% (w/v) Aqueous	500ml
CRER205	Cresol Red Indicator, 0.2% (w/v) Aqueous	500ml
CVSOLN011	Crystal Violet Indicator, 0.1% (w/v) in Glacial Acetic Acid, for Nonaqueous Titrations	100ml
CVSOLN021	Crystal Violet Indicator, 0.2% (w/v) in Glacial Acetic Acid, for Nonaqueous Titrations	100ml
CVSOLN1	Crystal Violet solution 1% in Glacial Acetic Acid	100ml
1022901	Crystal Violet, 0.1% (Non-aqueous indicator)	100ml
DPC05	Diphenylcarbazone 0.1%	500ml
DPCBRBP05	Diphenylcarbazone-Bromophenol Blue Mixed Indicator	500ml
EOW00051	Eosin YTS, 0.5% (w/v) Aqueous Solution, Adsorption Indicator for Argentometric Titrations	1L
EOW0011	Eosin Y 1% (w/v) Aqueous Solution, Adsorption Indicator	1L
EBB05	Erichrome Blue Black R	500ml
EBTT05	Eriochrome Black T Indicator in Triethanolamine, Water Hardness Indicator	500ml
EBTNACL105	Eriochrome Black T Indicator, 1% (w/w) in Sodium Chloride	500ml
EBTNACL0205	Eriochrome Blue Black R Indicator, 0.2% (w/w) in Sodium Chloride	500ml
ETVI01M05	Ethyl Violet Indicator, 0.1% w/v in 50% Methanol	500ml

FEAUTI	Product No.	Description	Pack Size
FEAL11   Ferric Alum Indicator Solution   1   1   1   1   1   1   1   1   1	FS0101	Fehlings solution No. 1	1L
Ferric Ammonium Sulfate	FS0102	Fehlings solution No. 2	1L
FERODITI	FEALI1	Ferric Alum Indicator Solution	1
Ferroin Indicator, 0.01 Molar	1037702	Ferric Ammonium Sulfate	1L
Ferroin Indicator, 0.028 Molar	PFS1	Ferroin Indicator	100ml
Indicator Thymol Blue Alcoholic Sol. 0.04%   500ml   INDCA05   Indigo Carmine Indicator   500ml   INDCA05   Indigo Carmine Indicator   500ml   INDCA05   Indigo Carmine Indicator   250ml   MGI00505   Malachite Green Indicator, 0.05% (w/v) Aqueous Solution   500ml   MGI1100505   MBTH Indicator, 0.05% (w/v) Aqueous Solution   500ml   MGTH100505   MBTH Indicator, 0.05% (w/v) Aqueous   500ml   MCP00405   m-Cresol Purple Indicator, 0.04% (w/v) Aqueous   500ml   MCP0106   m-Cresol Purple Indicator, 0.04% (w/v) Aqueous   500ml   MCP015   m-Cresol Purple Indicator, 0.04% (w/v) Aqueous   500ml   MCP016   m-Cresol Purple Indicator, 0.04% (w/v) Aqueous   500ml   MTPSI01   Metalphthalein-Screened Indicator RS   100ml   MCXCI05   Methyl Orange - Xylene Cyanol Indicator Solution   500ml   MTRIG025   Methyl Orange Indicator Alcoholic solution 0.13%   250ml   MOXFIDE   Methyl Orange Indicator Alcoholic solution 0.13%   250ml   MFRIPA1505   Methyl Purple Indicator, in dilute IPA (15% w/v)   500ml   MFRIPA1506   Methyl Purple Indicator, in dilute IPA (15% w/v)   500ml   MTRIG025   Methyl Red Alcoholic solution 0.02%   100ml   MTSLU0050   Methyl Red Alcoholic solution 0.02%   100ml   MTSLU0050   Methyl Red Alcoholic solution 0.02%   100ml   MTSLU0050   Methylene Blue, 0.05%   250ml   MTSLU10050   Methylene Blue, 0.05%   250ml   MTSLU10050   Methylene Blue, 0.1%   250ml   MTSLU10050   250ml   250ml   250ml   MTSLU10050   250ml   250ml   250ml   250ml   250ml   MTSLU100	FEI0011	Ferroin Indicator, 0.01 Molar	1L
Indigo Carmine Indicator	FEI00251	Ferroin Indicator, 0.025 Molar	1L
FEA25   Iron Alum (Volhard)   250ml   250ml   MGI00505   Malachite Green Indicator, 0.05% (w/v) Aqueous Solution   500ml   MBTH Indicator, 0.05% (w/v) Aqueous Solution   500ml   MBTH Indicator, 0.05% (w/v) Aqueous Solution   500ml   MBTH Indicator, 0.05% (w/v) Aqueous   500ml   MCP00406   m-Cresol Purple Indicator, 0.14% (w/v) Aqueous   500ml   MCP05   m-Cresol Purple Indicator, 0.14% (w/v) Aqueous   500ml   MCP05   m-Cresol Purple, 0.4%   500ml   MCP05   m-Cresol Purple, 0.4%   500ml   MCP05   Metalphthalein-Screened Indicator RS   100ml   MCXCI05   Methyl Orange - Nylene Cyanol Indicator SS   100ml   MTRSI01   Metalphthalein-Screened Indicator RS   100ml   MCXCI05   Methyl Orange Indicator, 0.04% Aqueous Solution   500ml   MTR06028   Methyl Orange Indicator, 0.04% Aqueous Solution   500ml   MTR06028   Methyl Porange Indicator Alcoholic Solution   500ml   MTR06028   Methyl Red Alcoholic Solution   0.19%   250ml   MTR06029   Methyl Red Alcoholic Solution   0.02%   100ml   1	TB04F	Indicator Thymol Blue Alcoholic Sol. 0.04%	500ml
MGI00505         Malachite Green Indicator, 0.05% (w/v) Aqueous Solution         500ml           MBTH Indicator, 0.05% (w/v) Aqueous Solution         500ml           MBTH Indicator, 0.5% (w/v) Aqueous         500ml           MCP0105         m-Cresol Purple Indicator, 0.04% (w/v) Aqueous         500ml           MCP016         m-Cresol Purple, 0.4%         500ml           MCP015         m-Cresol Purple, 0.4%         500ml           MTPSI01         Metalphthalein-Screened Indicator RS         100ml           MCP016         Methyl Orange - Vylene Cyanol Indicator Solution         500ml           MCS016         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           MCS025         Methyl Purple Indicator, in dilute IPA (15% v/v)         500ml           MFRIPA1605         Methyl Purple Indicator, in dilute IPA (15% v/v)         500ml           MTR06028         Methyl Red Alcoholic solution 0.02%         250ml           MTR055102         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU0055         Methyl Red Methylene Blue, 102%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 10%         250ml           PR	INDCA05	Indigo Carmine Indicator	500ml
MBTHI00505         MBTH Indicator, 0.05% (wv) Aqueous Solution         500ml           MBTHI00505         MBTH Indicator, 0.05% (wv) Aqueous Solution         500ml           MCP00405         m-Cresol Purple Indicator, 0.04% (w/v) Aqueous         500ml           MCP050         m-Cresol Purple Indicator, 0.19% (w/v) Aqueous         500ml           MCP050         m-Cresol Purple, 0.4%         500ml           MCXCIOS         Methyl Orange - Sylone Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange - Nylone Cyanol Indicator Solution         500ml           MOO4F         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           MOO4F         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MTR06025         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MTR06025         Methyl Red Alcoholic solution 0.02%         100ml           MTRSU005026         Methyl Red Alcoholic solution 0.02%         100ml           MTSS102         Methyl Red, 0.02%         100ml           MTRSU0050250         Methylene Blue, 0.05%         250ml           MTTBLU010260         Methylene Blue, 0.1%         250ml           MTBLU010280         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.1% (w/v) Aqu	FEA25	Iron Alum (Volhard)	250ml
MBTH10505         MBTH Indicator, 0.5% (w/v) Aqueous Solution         500ml           MCP00405         m-Cresol Purple Indicator, 0.04% (w/v) Aqueous         500ml           MCP0105         m-Cresol Purple Indicator, 0.1% (w/v) Aqueous         500ml           MCP0105         m-Cresol Purple, 0.4%         500ml           MCP010         m-Cresol Purple, 0.4%         500ml           MCXCIOS         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange Indicator Alcoholic solution         500ml           MOAF         Methyl Purple Indicator, in dilute IPA (15% v/v)         500ml           MD55102         Methyl Red Alcoholic solution 0.02%         100ml           MTR1025         Methyl Red Alcoholic solution 0.02%         100ml           MTSL1005         Methyl Red Alcoholic solution 0.02%         100ml           MTSL1005         Methyl Red Methylene Blue Indicator         250ml           MTBL1005         Methylene Blue, 0.05%         250ml           MTBL10010250         Methylene Blue, 0.05%         250ml           MTBL10010250         Methylene Blue, 1%         250ml           PR035         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         <	MGI00505	Malachite Green Indicator, 0.05% (w/v) Aqueous Solution	500ml
MCP010405         m-Cresol Purple Indicator, 0.04% (w/v) Aqueous         500ml           MCP0105         m-Cresol Purple, 0.4%         500ml           MCP015         m-Cresol Purple, 0.4%         500ml           MTPSi01         Metalphthalein-Screened Indicator RS         100ml           MCX0105         Methyl Orange - Vylene Cyanol Indicator Solution         500ml           MTR06025         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           M004F         Methyl Purple Indicator, in dilute IPA (15% v/v)         500ml           MPRIPA1505         Methyl Red Alcoholic Solution 0.1%         250ml           M056102         Methyl Red Alcoholic Solution 0.02%         250ml           TASH025         Methyl Red Alcoholic Solution 0.02%         100ml           TASH025         Methyl Red Jo.02%         100ml           MTBLU0050         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 0.1%         250ml           MTBLU010250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR805         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR905         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml <td>MBTHI00505</td> <td>MBTH Indicator, 0.05%</td> <td>500ml</td>	MBTHI00505	MBTH Indicator, 0.05%	500ml
MCP0105         m-Cresol Purple Indicator, 0.1% (w/v) Aqueous         500ml           MCP05         m-Cresol Purple, 0.4%         500ml           MCP05         m-Cresol Purple, 0.4%         500ml           MCP05         m-Cresol Purple, 0.4%         500ml           MTR0501         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           MO04F         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MFR1605         Methyl Purple Indicator, 0.1%         250ml           MTR06025         Methyl Red Alcoholic solution 0.1%         250ml           MTR1055102         Methyl Red Alcoholic solution 0.02%         100ml           MTSL10055         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU005025         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU005025         Methyl Red Alcoholic solution 0.02%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           PRe03	MBTHI0505	MBTH Indicator, 0.5% (w/v) Aqueous Solution	500ml
MCP05         m-Cresol Purple, 0.4%         500ml           MTPSI01         Metalphthalein-Screened Indicator RS         100ml           MCXCI05         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange Indicator, 20.4% Aqueous Solution         500ml           MO04F         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MPRIPA1505         Methyl Ped Alcoholic solution 0.02%         250ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU0525         Methyl Red D.0.05%         250ml           MITBLU0525         Methyl Red D.0.02%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 1% <td< td=""><td>MCP00405</td><td>m-Cresol Purple Indicator, 0.04% (w/v) Aqueous</td><td>500ml</td></td<>	MCP00405	m-Cresol Purple Indicator, 0.04% (w/v) Aqueous	500ml
MTPSI01         Metalphthalein-Screened Indicator RS         100ml           MCXCI05         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR05025         Methyl Orange Indicator, C.04% Aqueous Solution         500ml           M004F         Methyl Orange Indicator, C.04% Aqueous Solution         500ml           MPRIPA1505         Methyl Purple Indicator, in dilute IPA (15% w/v)         500ml           MTR05025         Methyl Red Alcoholic solution 0.0%         250ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           TASH025         Methyl Red Alcoholic solution 0.02%         100ml           MTSLU0050250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.1% (w/v) Aqueous         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PP1005         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PP1006         Phenole Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PP10109         Pheno	MCP0105	m-Cresol Purple Indicator, 0.1% (w/v) Agueous	500ml
MOXCI05         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR06025         Methyl Orange Indicator Alcoholic solution 0.1%         250ml           M004F         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           M004F         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MRPRIPA1505         Methyl Purple Indicator, 0.1%         250ml           MTR06025         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU005025         Methyl Red, 0.02%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 0.1%         250ml           MTBLU10260         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1.6%	MCP05		
MOXCI05         Methyl Orange - Xylene Cyanol Indicator Solution         500ml           MTR06025         Methyl Orange Indicator Alcoholic solution 0.1%         250ml           M004F         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           M004F         Methyl Purple Indicator, 0.04% Aqueous Solution         500ml           MRPRIPA1505         Methyl Purple Indicator, 0.1%         250ml           MTR06025         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU005025         Methyl Red, 0.02%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 0.1%         250ml           MTBLU10260         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1.6%	MTPSI01	• *	
MTR05025         Methyl Orange Indicator Alcoholic solution 0.1%         250ml           M004F         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           MPRIPA1505         Methyl Purple Indicator, in dilute IPA (15% v/y)         500ml           MTR06025         Methyl Red Alcoholic solution 0.1%         250ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red Alcoholic solution 0.02%         100ml           MTSLU05020         Methyl Red Alcoholic solution 0.02%         100ml           MTBLU010250         Methyl Red J.0.02%         250ml           MTBLU010250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PP1005         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein indicator, 0.5%	MOXCI05	•	
M004F         Methyl Orange Indicator, 0.04% Aqueous Solution         500ml           MPRIPA1505         Methyl Red Alcoholic solution 0.1%         250ml           MTR06025         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red, 0.02%         100ml           MTBLU0050250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.01%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PR105         Phenolphthalein indicator, 1.6%         500ml           PD706H         Phenolphthalein indicator, 0.5%         500ml           PP10705         Phenolphthalein indicator, 0.5%         500ml<	MTR05025		
MPRIPA1505         Methyl Purple Indicator, in dilute IPA (15% v/y)         500ml           MTR06025         Methyl Red Alcoholic solution 0.1%         250ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           1055102         Methyl Red, 0.02%         100ml           MTSLU0505         Methyl Red, 0.02%         100ml           MTBLU010250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           PR045         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR055         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PPR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           IPT01H         Phenolphthalein indicator, 0.5%         500ml           IPT01H         Phenolphthalein indicator, 1%			
MTR06025         Methyl Red Alcoholic solution 0.1%         250ml           1055102         Methyl Red Alcoholic solution 0.02%         100ml           TASHI025         Methyl Red, 0.02%         100ml           MTBLU0050250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           Phen045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PT064         Phenolphthalein indicator, 0.5%         500ml           PT071H         Phenolphthalein indicator, 0.5%         500ml           PT169         Phenolphthalein indicator, 1.6%         500ml           PCS5<			
1005102   Methyl Red Alcoholic solution 0.02%   100ml   17ASHI025   Methyl Red - Methylene Blue Indicator   250ml   100ml   1055102   Methylene Blue, 0.02%   100ml   100ml			
TASHI025         Methyl Red- Methylene Blue Indicator         250ml           1055102         Methyl Red, 0.02%         100ml           MTBLU0050250         Methylene Blue, 0.05%         250ml           MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PPR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PPR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           IPT060         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           IPT01H         Phenolphthalein indicator, 0.5%         500ml           IPT05H         Phenolphthalein indicator, 0.5%         500ml           IPT104         Phenolphthalein indicator, 1,8%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST106         Starch Indicator, 0.05% (w/v)         500ml		•	
Methyl Red, 0.02%   100ml   MTBLU0050250   Methylene Blue, 0.05%   250ml   MTBLU010250   Methylene Blue, 0.05%   250ml   MTBLU10250   Methylene Blue, 0.1%   250ml   MTBLU10250   Methylene Blue, 0.1%   250ml   PR045   Phenol Red Indicator, 0.04% (w/v) Aqueous Solution   500ml   PR105   Phenol Red Indicator, 0.1% (w/v) Aqueous Solution   500ml   PR505   Phenol Red Indicator, 0.5% (w/v) Aqueous Solution   500ml   PR1005   Phenol Red Indicator, 1% (w/v) Aqueous Solution   500ml   PR1005   Phenol Red, 0.02%   100ml   1063601   Phenol Red, 0.02%   100ml   19PT01H   Phenolphthalein indicator, 0.1%   500ml   19PT05H   Phenolphthalein indicator, 0.5%   500ml   19PT1025   Phenolphthalein indicator, 1%   250ml   19PT104   Phenolphthalein indicator, 1%   500ml   19PT16W   Phenolphthalein indicator, 1%   500ml   19PT16W   Phenolphthalein indicator, 16%   2.5L   PCS5   Potassium chromate, 5%   500ml   19PT16W   Phenolphthalein indicator, 1.6%   2.5L   100ml   100m		•	
MTBLU0050250         Methylene Blue, 0.05%         250ml           MTBLU010250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous         500ml           PR505         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           IPT006         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           IPT01H         Phenolphthalein indicator, 0.5%         500ml           IPT05H         Phenolphthalein indicator, 1%         250ml           IPT105         Phenolphthalein indicator, 1%         250ml           IPT104         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MCS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator, 0.5% (w/v)         500ml           ST0055			
MTBLU10250         Methylene Blue, 0.1%         250ml           MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous Solution         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           1063601         Phenol Red, 0.02%         100ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein indicator, 0.5%         500ml           IPT105B         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 16%         2.5L           PCS5         Potassium chromate, 5%         500ml           MCS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.05% (w/v)         500ml           ST0305         Starch Indicat			
MTBLU10250         Methylene Blue, 1%         250ml           PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red, 0.02%         100ml           IP701H         Phenolphthalein indicator, 0.1%         500ml           IP705H         Phenolphthalein Indicator, 0.5%         500ml           IP71025         Phenolphthalein indicator, 1%         250ml           IP7104         Phenolphthalein indicator, 1%         500ml           IP716W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0255         Starch Indicator, 0.05% (w/v)         500ml           ST0255         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0505P         Starch Indi		•	
PR045         Phenol Red Indicator, 0.04% (w/v) Aqueous Solution         500ml           PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           1063601         Phenol Red, 0.02%         100ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein indicator, 1%         250ml           IPT10E         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MCS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator, 0.2% (w/v)         500ml           ST0205         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.05% (w/v)         500ml           ST0255         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST05			
PR105         Phenol Red Indicator, 0.1% (w/v) Aqueous         500ml           PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           1063601         Phenol Red, 0.02%         100ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein Indicator, 1%         500ml           IPT1025         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.05% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, with 0.5% Potassium lodide         500ml           ST0505P         Sta		•	
PR505         Phenol Red Indicator, 0.5% (w/v) Aqueous Solution         500ml           PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           1063601         Phenol Red, 0.02%         100ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein indicator, 0.5%         500ml           IPT1025         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v)         500ml           ST0305         Starch Indicator, 0.5% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, 0.5% Potassium lodide		· , , , ,	
PR1005         Phenol Red Indicator, 1% (w/v) Aqueous Solution         500ml           1063601         Phenol Red, 0.02%         100ml           IPT01H         Phenolphthalein indicator, 0.1%         500ml           IPT05H         Phenolphthalein Indicator, 0.5%         500ml           IPT1025         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.2% (w/v)         500ml           ST0255         Starch Indicator, 0.2% (w/v)         500ml           ST0305         Starch Indicator, 0.5% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml		, , , ,	
100ml   100m			
PT01H			
PT05H   Phenolphthalein Indicator, 0.5%   500ml			
IPT1025         Phenolphthalein indicator, 1%         250ml           IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST0505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO0405         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           109070			
IPT10H         Phenolphthalein indicator, 1%         500ml           IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST0505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO0405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           UN1005			
IPT16W         Phenolphthalein indicator, 1.6%         2.5L           PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator, 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.25% (w/v)         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, with 0.5% Potassium lodide         500ml           ST0505P         Starch Indicator, with 5% Potassium lodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO0405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           VANG5H <td< td=""><td></td><td>•</td><td></td></td<>		•	
PCS5         Potassium chromate, 5%         500ml           MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST0505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml	-	,	
MOS05         Screened Methyl Orange Alcoholic solution 0.1%         500ml           ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0205         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium lodide         500ml           ST0505P         Starch Indicator, with 5% Potassium lodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO0405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml			
ST105         Starch Indicator 1%         500ml           ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium lodide         500ml           ST0505P         Starch Indicator, with 5% Potassium lodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO0405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml			
ST205         Starch Indicator 2%         500ml           ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST0505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml		, ,	
ST0055         Starch Indicator, 0.05% (w/v)         500ml           ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium lodide         500ml           ST0505P         Starch Indicator, with 5% Potassium lodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml			
ST0205         Starch Indicator, 0.2% (w/v) Aqueous Solution         500ml           ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST205		
ST0255         Starch Indicator, 0.25% (w/v) Aqueous Solution         500ml           ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium lodide         500ml           ST505P         Starch Indicator, with 5% Potassium lodide         500ml           S00405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0055		
ST0305         Starch Indicator, 0.3% (w/v)         500ml           ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium lodide         500ml           ST505P         Starch Indicator, with 5% Potassium lodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0205		
ST0505         Starch Indicator, 0.5% (w/v)         500ml           ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0255		
ST0505P         Starch Indicator, with 0.5% Potassium Iodide         500ml           ST505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0305		
ST505P         Starch Indicator, with 5% Potassium Iodide         500ml           SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0505	· · · · · ·	
SO0405         Sulfo Orange, 0.04%         500ml           SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST0505P	Starch Indicator, with 0.5% Potassium Iodide	500ml
SO405         Sulfo Orange, 0.4%         500ml           SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	ST505P	Starch Indicator, with 5% Potassium Iodide	500ml
SO0105         Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution         500ml           1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	SO0405	Sulfo Orange, 0.04%	500ml
1090701         Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol         100ml           1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	SO405	Sulfo Orange, 0.4%	500ml
1090701         Thymolphthalein, 0.05%         100ml           UN1005         Universal Indicator solution         50ml           VANG5H         Van Gieson Stain 500ml         500ml	SO0105	Sulfo Orange, 0.1% (w/v) (Tropaeolin O) Aqueous Solution	500ml
UN1005 Universal Indicator solution 50ml VANG5H Van Gieson Stain 500ml 500ml	1090701	Thymolphthalein Indicator, 0.05% (w/v) in 90% (v/v) Alcohol	100ml
VANG5H Van Gieson Stain 500ml 500ml	1090701	Thymolphthalein, 0.05%	100ml
	UN1005	Universal Indicator solution	50ml
WHI05 Water Hardness Indicator 500ml	VANG5H	Van Gieson Stain 500ml	500ml
	WHI05	Water Hardness Indicator	500ml