Reagecon

ALKEM



Laboratory Reagents Catalogue

Delivering The Correct Result ...

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INTRODUCTION

Welcome to the new Reagecon Laboratory Reagents catalogue

Since the publication of our last catalogue, substantial changes have occurred in the field of analytical chemistry. Stringent regulatory demands, combined with major economic implications and increased competitiveness places necessity for validity on every analytical test performed, either in the laboratory, or in the field. Not only must the correct result be obtained, but proof must also be provided for it's fitness for purpose, validity and accuracy. Such proof must then be accessible, retrievable and presented in an easily understood format. Reagecon continue to respond to these challenges, by presenting to it's customers, an ever increasing range of highly specified, stable, traceable, certified range of standards and reagents.

The use of products such as calibrators or control materials can greatly increase the possibility of the analyst obtaining the correct result and can provide definitive proof of the correctness of such a result from a technical perspective.

Other rapidly occurring changes in the laboratory market place include stringent regulations pertaining to the shipment of hazardous goods; the development of e-commerce and the ever increasing requirement for scientific knowledge.

Hazardous Goods

Products which are known to be hazardous are labelled by Reagecon in accordance with national and EU regulations and each label outlines the appropriate hazard symbols and risk and safety phrases. The products are packaged where appropriate in UN approved packaging. Material Safety Data Sheets (MSDS) are available for all products and can be obtained at www.reagecon.com

E-Commerce

All of Reagecon's products can be purchased on line from our web based laboratory shopping facility at www.reagecon.com

Technical and Scientific Literature

As a producer of high quality chemical standards, Reagecon employ a large number of scientists in areas of new product development, quality, manufacturing and technical services. Our scientists produce a large output of original technical and scientific literature and are responsible for several publications every year relating to various aspects of analytical chemistry. A selection of these papers can be viewed and downloaded at www.reagecon.com

We hope you find the contents of this catalogue beneficial; that the products on offer match your technical specifications; represent value for money and that they will greatly enhance your ability to achieve valid and correct analytical results now and in the future.

John J Barron
Managing Director

Quality at Reagecon

The management and staff at Reagecon are committed to developing, manufacturing, testing and delivering high quality product in optimal condition. To optimise, formalise and underpin our quality systems, Reagecon have implemented the following quality systems:


Irish National Accreditation Board

Accreditation Certificate

Reagecon Diagnostics Ltd.

ISO9001:2000

The Quality Management System (QMS) in Reagecon is structured around ISO9001:2000 and involves all personnel in all areas of the company. Reagecon have this certification since 1990 and the system ensures a structured and systematic method of working in order to meet with, and where possible, exceed customer expectations.


nsai

Certificate of Registration
of Quality System to
I.S. EN ISO 9001:2000

Reagecon Diagnostics Ltd

ISO 17025

The laboratory at Reagecon is accredited to ISO17025 by the National Accreditation Board for a number of test methods. This accreditation is a stringent, laboratory specific QMS (Quality Management System). The standard outlines all the requirements that testing laboratories must demonstrate to prove that they are technically competent and that the laboratory generates technically validated results. Reagecon have held the accreditation since 1990.

Excellence Through People

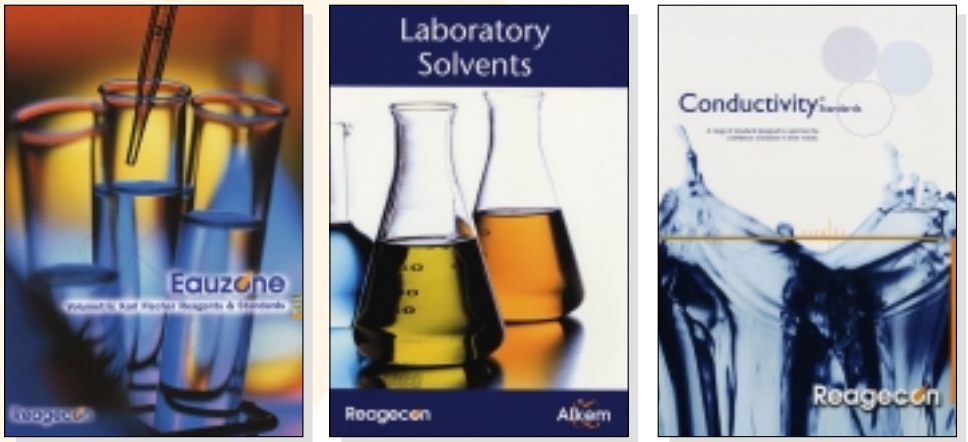
Excellence Through People is Ireland's national standard for human resource development. It is the only national standard uniquely dedicated to people and is available to all types of organisations. Reagecon was awarded the standard in 2005 and is 1 of only 150 organisations in Ireland that have achieved the accreditation of Excellence Through People.



New Developments at Reagecon

As part of our ongoing corporate growth development, Reagecon is proud to present a selection of catalogues covering other aspects of our product offerings.





REQUEST FOR CUSTOMISED REAGENTS

Currently we manufacture a number of customised products that are not included in this catalogue. We would be pleased to receive such enquiries. When requesting information on a customised solution, please ensure that you furnish both the pack size, the number of containers needed and also other relevant information such as tolerances, percentage, w/w or w/v etc. as outlined below.

REQUEST FOR CUSTOMISED / SPECIAL / NON-STANDARD REAGENTS AND SOLUTIONS

FROM: _____

ADDRESS: _____

_____

TELEPHONE NO: _____

TELEFAX NO: _____

EMAIL: _____

CONTACT NAME: _____

PRODUCT DESCRIPTION: _____

GRADE OF REAGENT: _____

ACCURACY: _____

APPLICATION (IF KNOWN): _____

QUANTITY REQUIRED: _____

PACK SIZE: _____

FORMULATION (IF AVAILABLE): _____

REQUIREMENT DATE: _____

CERTIFICATE OF ANALYSIS REQUIRED: YES: ☐ NO: ☐

ANNUAL QUANTITY REQUIRED: _____

WHO IS CURRENT SUPPLIER (if known): _____

CURRENT PRICE: _____

OTHER INFORMATION: _____

Please photocopy, complete the information requested and fax to your local distributor or Reagecon at + 353 61 472642

pH BUFFER SOLUTIONS

Reagecon manufacture the most comprehensive range of pH reagents in Europe which are designed to suit all end user requirements. These include laboratory grade buffers, the Professional Range (buffer standards as per N.I.S.T/DIN and high resolution buffers), low ionic strength buffers and buffer capsules. They are manufactured to exacting specifications with an extended shelf life and cover the pH range of pH 1.00 to pH 13.00 inclusive. All are supplied with a detailed Certificate of Analysis which outlines traceability to N.I.S.T (the N.I.S.T SRM(s) Lot No. is stated on the certificate). Temperature dependence data is printed on the label as are lot numbers and expiry dates.




Reagecon

Certificate of Analysis

pH Buffer Solution

Buffer solution pH 4.00 ± 0.01 @ 20°C


Reagecon

Certificate of Analysis

pH Buffer Solution

Buffer solution pH 10.00 ± 0.01 @ 25°C

pH BUFFERS - 20°C

Product No	Description	Specification	Temperature	Pack Size
10105 1010 5010	BUFFER SOLUTION pH 1.00	± 0.02	@ 20°C	500ml 1L 5L
10205 1020 5020	BUFFER SOLUTION pH 2.00	± 0.02	@ 20°C	500ml 1L 5L
10305 1030 5030	BUFFER SOLUTION pH 3.00	± 0.02	@ 20°C	500ml 1L 5L
10405 1040 5040	BUFFER SOLUTION pH 4.00	± 0.01	@ 20°C	500ml 1L 5L
CC10405 CC1040 CC5040	BUFFER SOLUTION pH 4.00 PHTHALATE FREE	± 0.01	@ 20°C	500ml 1L 5L
10505 1050 5050	BUFFER SOLUTION pH 5.00	± 0.01	@ 20°C	500ml 1L 5L
10605 1060 5060	BUFFER SOLUTION pH 6.00	± 0.01	@ 20°C	500ml 1L 5L
10685 1068 5068	BUFFER SOLUTION pH 6.80	± 0.01	@ 20°C	500ml 1L 5L
10705 1070 5070	BUFFER SOLUTION pH 7.00	± 0.01	@ 20°C	500ml 1L 5L
10805 1080 5080	BUFFER SOLUTION pH 8.00	± 0.01	@ 20°C	500ml 1L 5L
10905 1090 5090	BUFFER SOLUTION pH 9.00	± 0.01	@ 20°C	500ml 1L 5L
11005 1100 5100	BUFFER SOLUTION pH 10.00	± 0.01	@ 20°C	500ml 1L 5L
11105 1110 5110	BUFFER SOLUTION pH 11.00	± 0.05	@ 20°C	500ml 1L 5L
11205 1120 5120	BUFFER SOLUTION pH 12.00	± 0.05	@ 20°C	500ml 1L 5L
11305 1130 5130	BUFFER SOLUTION pH 13.00	± 0.05	@ 20°C	500ml 1L 5L

Prices for other sizes are also available on request

pH BUFFERS - 25°C

Product No	Description	Specification	Temperature	Pack Size
1010525 101025 501025	BUFFER SOLUTION pH1.00	±0.02	@ 25°C	500ml 1L 5L
1020525 102025 502025	BUFFER SOLUTION pH2.00	±0.02	@ 25°C	500ml 1L 5L
1030525 103025 503025	BUFFER SOLUTION pH3.00	±0.02	@ 25°C	500ml 1L 5L
1040525 104025 504025	BUFFER SOLUTION pH4.00	±0.01	@ 25°C	500ml 1L 5L
CC1040525 CC104025 CC504025	BUFFER SOLUTION pH4.00 PHTHALATE FREE	±0.01	@ 25°C	500ml 1L 5L
1050525 105025 505025	BUFFER SOLUTION pH5.00	±0.01	@ 25°C	500ml 1L 5L
1060525 106025 506025	BUFFER SOLUTION pH6.00	±0.01	@ 25°C	500ml 1L 5L
1068525 106825 506825	BUFFER SOLUTION pH6.80	±0.01	@ 25°C	500ml 1L 5L
1070525 107025 507025	BUFFER SOLUTION pH7.00	±0.01	@ 25°C	500ml 1L 5L
1080525 108025 508025	BUFFER SOLUTION pH8.00	±0.01	@ 25°C	500ml 1L 5L
1090525 109025 509025	BUFFER SOLUTION pH9.00	±0.01	@ 25°C	500ml 1L 5L
1100525 110025 510025	BUFFER SOLUTION pH10.00	±0.01	@ 25°C	500ml 1L 5L
1110525 111025 511025	BUFFER SOLUTION pH11.00	±0.05	@ 25°C	500ml 1L 5L
1120525 112025 512025	BUFFER SOLUTION pH12.00	±0.05	@ 25°C	500ml 1L 5L
1130525 113025 513025	BUFFER SOLUTION pH13.00	±0.05	@ 25°C	500ml 1L 5L

All are supplied with a detailed Certificate of Analysis which shows traceability to N.I.S.T. (the Lot No. of the N.I.S.T. SRM(s) is stated on the certificate)

Prices for other sizes are also available on request

COLOUR CODED BUFFERS

These solutions are colour coded for ease of identification



STANDARD BOTTLE FORMAT

Product No	Description	Specification	Temperature	Pack Size
10405C 1040C 5040C	BUFFER pH4.00 (Red)	±0.01	@ 20˚C	500ml 1L 5L
10705C 1070C 5070C	BUFFER pH7.00 (Yellow)	±0.01	@ 20˚C	500ml 1L 5L
11005C 1100C 5100C	BUFFER pH10.00 (Blue)	±0.01	@ 20˚C	500ml 1L 5L
1040525C 104025C 504025C	BUFFER pH4.00 (Red)	±0.01	@ 25˚C	500ml 1L 5L
1070525C 107025C 507025C	BUFFER pH7.00 (Yellow)	±0.01	@ 25˚C	500ml 1L 5L
1100525C 110025C 510025C	BUFFER pH10.00 (Blue)	±0.01	@ 25˚C	500ml 1L 5L

TWIN NECK BOTTLE FORMAT

pH Buffers are available in an attractive and innovative twin neck bottle. The main advantages of this packaging are:

- No possibility of contamination.
- No need for separate measuring container for use in the calibration of the Electrode.
- Correct quantity of buffer required for calibration is dispensed into the calibrating chamber giving rise to no waste.
- Ideally suited for field work.
- Easy to carry.
- 250ml, 500ml and 1L sizes available.



Product No	Description	Specification	Temperature	Pack Size
10402CTT 10405CTT 1040CTT	BUFFER pH4.00 (Red)	±0.01	@ 20°C	250ml 500ml 1L
10702CTT 10705CTT 1070CTT	BUFFER pH7.00 (Yellow)	±0.01	@ 20°C	250ml 500ml 1L
11002CCTT 11005CCTT 1100CTT	BUFFER pH10.00 (Blue)	±0.01	@ 20°C	250ml 500ml 1L
1040225CTT 1040525CTT 104025CTT	BUFFER pH4.00 (Red)	±0.01	@ 25°C	250ml 500ml 1L
1070225CTT 1070525CTT 107025CTT	BUFFER pH7.00 (Yellow)	±0.01	@ 25°C	250ml 500ml 1L
1100225CTT 1100525CTT 110025CTT	BUFFER pH10.00 (Blue)	±0.01	@ 25°C	250ml 500ml 1L

PROFESSIONAL RANGE

These buffer solutions are suitable for use where very accurate measurements are required.

pH BUFFER STANDARDS N.I.S.T. VALUES @ 20°C

Product No	Description	NIST	Temperature	Pack Size
101675	BUFFER STANDARD	1.675	@ 20°C	500ml
101677	BUFFER STANDARD	1.677	@ 20°C	500ml
103788	BUFFER STANDARD	3.788	@ 20°C	500ml
104001	BUFFER STANDARD	4.001	@ 20°C	500ml
106881	BUFFER STANDARD	6.881	@ 20°C	500ml
107429	BUFFER STANDARD	7.429	@ 20°C	500ml
109225	BUFFER STANDARD	9.225	@ 20°C	500ml
110062	BUFFER STANDARD	10.062	@ 20°C	500ml
112627	BUFFER STANDARD	12.627	@ 20°C	500ml

pH BUFFER STANDARDS DIN 19266 VALUES @ 25°C

Product No	Description	DIN	Temperature	Pack Size
101679	BUFFER STANDARD	1.679	@ 25°C	500ml
103776	BUFFER STANDARD	3.776	@ 25°C	500ml
104005	BUFFER STANDARD	4.005	@ 25°C	500ml
10687	BUFFER STANDARD	6.865	@ 25°C	500ml
107413	BUFFER STANDARD	7.413	@ 25°C	500ml
109180	BUFFER STANDARD	9.180	@ 25°C	500ml
110012	BUFFER STANDARD	10.012	@ 25°C	500ml
112454	BUFFER STANDARD	12.454	@ 25°C	500ml

HIGH RESOLUTION BUFFERS - COLOUR CODED

Product No	Description	Specification	Temperature	Pack Size
104000C	BUFFER pH 4.000 (Red)	±0.010	@ 20°C	500ml
107000C	BUFFER pH 7.000 (Yellow)	±0.010	@ 20°C	500ml
110000C	BUFFER pH 10.000 (Blue)	±0.010	@ 20°C	500ml
H40525C	BUFFER pH 4.000 (Red)	±0.010	@ 25°C	500ml
H70525C	BUFFER pH 7.000 (Yellow)	±0.010	@ 25°C	500ml
H100525C	BUFFER pH 10.000 (Blue)	±0.010	@ 25°C	500ml

TECHNICAL BUFFERS @ 20°C / 25°C

Product No	Description	25°C	20°C	Pack Size
TB2002	TECHNICAL BUFFER	2.00	2.00	250ml
TB200	TECHNICAL BUFFER	2.00	2.00	500ml
TB4012	TECHNICAL BUFFER	4.01	4.00	250ml
TB401	TECHNICAL BUFFER	4.01	4.00	500ml
TB4011	TECHNICAL BUFFER	4.01	4.00	1L
TB4602	TECHNICAL BUFFER	4.60	4.62	250ml
TB460	TECHNICAL BUFFER	4.60	4.62	500ml
TB7002	TECHNICAL BUFFER	7.00	7.02	250ml
TB700	TECHNICAL BUFFER	7.00	7.02	500ml
TB7001	TECHNICAL BUFFER	7.00	7.02	1L
TB9212	TECHNICAL BUFFER	9.21	9.26	250ml
TB921	TECHNICAL BUFFER	9.21	9.26	500ml
TB1002	TECHNICAL BUFFER	10.00	10.13	250ml
TB100	TECHNICAL BUFFER	10.00	10.13	500ml
TB1001	TECHNICAL BUFFER	10.00	10.13	1L

LOW IONIC STRENGTH BUFFERS

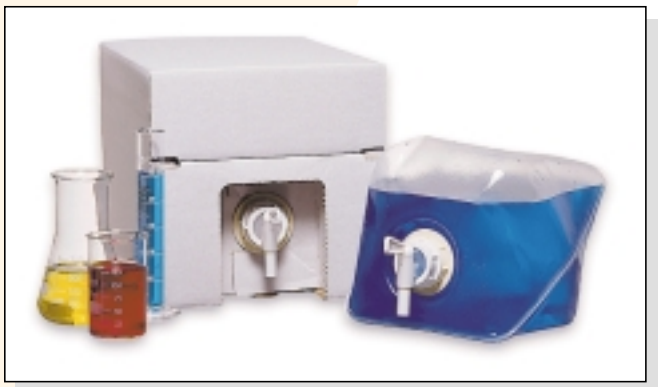
Reagecon has developed a series of special buffers which are suitable for accurate measurement of low ionic strength samples when used with standard electrodes.

These buffers are of low ionic strength and when used to calibrate the electrode, significantly reduce the stabilisation time required and increase accuracy and reproducibility.

Product No	Description	Specification	Temperature	Pack Size
LS41	BUFFER SOLUTION pH4.10	±0.04	@ 20°C	500ml
LS415	BUFFER SOLUTION pH4.10	±0.04	@ 20°C	5L
LS69	BUFFER SOLUTION pH6.96	±0.04	@ 20°C	500ml
LS695	BUFFER SOLUTION pH6.96	±0.04	@ 20°C	5L

"BAG-IN-BOX" - COLOUR CODED

These pH Buffer Solutions are supplied in Cubitainers i.e. a box with a collapsible plastic liner with a tap for dispensing solution



Product No	Description	Specification	Temperature	Pack Size
BPH01 BPH02	BUFFER pH4.00 (Red)	±0.01	@ 20°C	5L 10L
BPH03 BPH04	BUFFER pH7.00 (Yellow)	±0.01	@ 20°C	5L 10L
BPH05 BPH06	BUFFER pH10.00 (Blue)	±0.01	@ 20°C	5L 10L
BPH07 BPH08	BUFFER pH4.00 (Red)	±0.01	@ 25°C	5L 10L
BPH09 BPH10	BUFFER pH7.00 (Yellow)	±0.01	@ 25°C	5L 10L
BPH11 BPH12	BUFFER pH10.00 (Blue)	±0.01	@ 25°C	5L 10L

Various other pH values are available on request. Please contact sales@reagecon.ie for further information

pH BUFFER CAPSULES

Advantages of Capsules

The presentation of pH buffers in capsule format is an innovative concept developed by Reagecon, and offers the following advantages:



- Colour coded for ease of identification
- Easy to use
- Dissolve quickly
- Accuracy ±0.02 pH units
- Preservative free
- Economical
- Easy to store and transport
- Extended shelf life

To use: Empty contents of one capsule into 100ml of distilled water.

Product No	Description	Specification	Temperature	Pack Size
CP1040	Capsule pH4.01 (Orange)	±0.02	@ 25°C	50 Capsules
CP1070	Capsule pH7.00 (Green)	±0.02	@ 25°C	50 Capsules
CP1090	Capsule pH9.00 (Purple)	±0.02	@ 25°C	50 Capsules
CP1100	Capsule pH10.00 (Blue)	±0.02	@ 25°C	50 Capsules
CPMX47910	Mixed Pack	±0.02	@ 25°C	10 pH4.01 20pH7.00 10pH9.00 10pH10.00

RECAL - SINGLE USE CALIBRATION BUFFERS (COLOUR CODED)

RECAL is a range of pH Buffers in a wide mouth disposable container which can be used for direct calibration of the electrode and then discarded on completion. RECAL offers the following advantages:

- Convenience - saves time, more efficient calibration, avoids waste and spillage.
- Mobility - These are easy to store and transport, allowing calibration in the field or directly in the plant.
- Economical - No waste buffer, beaker not required.
- Accuracy - the possibility of contamination is eliminated giving increased confidence in the results.
- Traceability - Each container is labelled with lot number and expiry date and buffers are directly traceable to N.I.S.T. Standards.

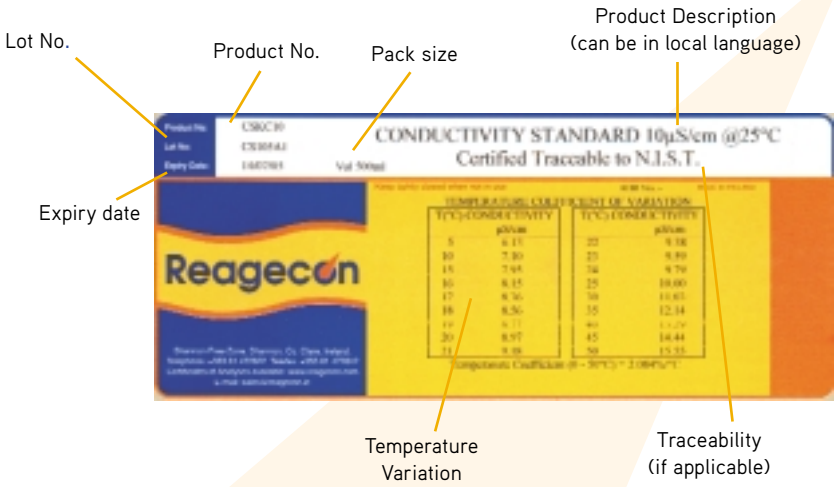


Product No	Description	Specification	Temperature	Pack Size
04C60	pH 4.00 (Red)	±0.01	@ 20°C	6 x 90ml
07C60	pH 7.00 (Yellow)	±0.01	@ 20°C	6 x 90ml
10C60	pH 10.00 (Blue)	±0.01	@ 20°C	6 x 90ml
MXC60	Mixed pack of 2 x pH4, 7 & 10	±0.01	@ 20°C	6 x 90ml
04C65	pH 4.00 (Red)	±0.01	@ 25°C	6 x 90ml
07C65	pH 7.00 (Yellow)	±0.01	@ 25°C	6 x 90ml
10C65	pH 10.00 (Blue)	±0.01	@ 25°C	6 x 90ml
MXC65	Mixed pack of 2xpH4, 7 & 10	±0.01	@ 25°C	6 x 90ml

CONDUCTIVITY STANDARDS

These solutions are standardised at 25˚C and are accurate to ±1.0%. All are directly traceable to N.I.S.T. standard reference materials.

Temperature dependence data, lot no. and expiry date are printed on all product labels.



STANDARD VALUES

Product No	Description	Temperature	Pack Size
CSKC84	84 Microsiemens/cm	25˚C	500ml
CSKCS	147 Microsiemens/cm	25˚C	500ml
CSKCL	1413 Microsiemens/cm	25˚C	500ml
CSKC12880	12,880 Microsiemens/cm	25˚C	500ml

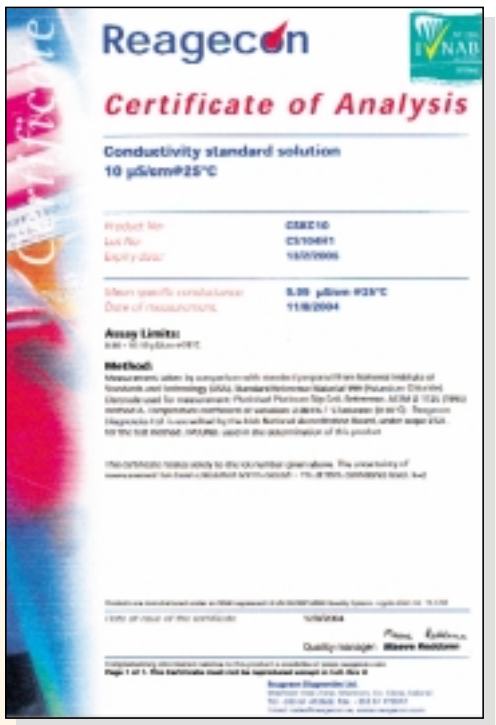
PREMIUM VALUES

Product No	Description	Temperature	Pack Size
*CSKC136	1.30 Microsiemens/cm	25˚C	6x250ml
*CSKC13	1.30 Microsiemens/cm	25˚C	250ml
CSKC5	5 Microsiemens/cm	25˚C	500ml
CSKC10	10 Microsiemens/cm	25˚C	500ml
CSKC20	20 Microsiemens/cm	25˚C	500ml
CSKC50	50 Microsiemens/cm	25˚C	500ml
CSKC100	100 Microsiemens/cm	25˚C	500ml
CSKC200	200 Microsiemens/cm	25˚C	500ml
CSKC500	500 Microsiemens/cm	25˚C	500ml
CSKC1000	1,000 Microsiemens/cm	25˚C	500ml
CSKC5M	5,000 Microsiemens/cm	25˚C	500ml
CSKC10M	10,000 Microsiemens/cm	25˚C	500ml
CSKC20M	20,000 Microsiemens/cm	25˚C	500ml
CSKC50M	50,000 Microsiemens/cm	25˚C	500ml
CSKC100M	100,000 Microsiemens/cm	25˚C	500ml
CSKC150M	150,000 Microsiemens/cm	25˚C	500ml
CSKC200M	200,000 Microsiemens/cm	25˚C	500ml
CSKC300M	300,000 Microsiemens/cm	25˚C	500ml
CSKC350M	350,000 Microsiemens/cm	25˚C	500ml
CSKC450M	450,000 Microsiemen/cm	25˚C	500ml
CSKC500M	500,000 Microsiemens/cm	25˚C	500ml

***Accuracy for 1.3 µS/cm is ±4%**

TDS STANDARD

Product No	Description	Temperature	Pack Size
CS1382	1382 ppm NaCl	25°C	500ml


Reagecon

Certificate of Analysis

Conductivity standard solution
10 µS/cm@25°C


Reagecon

Certificate of Analysis

Conductivity standard solution
200,000 µS/cm @25°C

Reagecon also supply a complete range of Conductivity Cells - K=0.1; 1.0 and 10.0 in glass or plastic which are compatible with all makes and models of Conductivity Meters.

EUROPEAN PHARMACOPOEIA REAGENTS

Reagecon, as a specialist manufacturer of laboratory reagents has now introduced the range of Reagents and Standard solutions in Chapters 2 and 4 of the current E.P. All are manufactured and tested in compliance with the Ph. Eur. and are supplied with Certificates of Analysis. Lot No. and Expiry Date are stated on all product labels.



Reagents are always supplied as per the most recently issued supplement

REAGENTS AS OUTLINED IN CHAPTER 2

Product No	Description	Pack Size
EPPOS01	Primary opalescence solution	100ml

COLOURATION - PRIMARY SOLUTIONS

Product No	Description	Pack Size
EPYS01	Colouration - Primary Solution Yellow	100ml
EPRS01	Colouration - Primary Solution Red	100ml
EPBS01	Colouration - Primary Solution Blue	100ml

STANDARD SOLUTIONS

Product No	Description	Pack Size
EP703	Standard solution B (brown)	125ml
EP704	Standard solution BY (brownish yellow)	125ml
EP706	Standard solution Y (yellow)	125ml
EP705	Standard solution GY (greenish yellow)	125ml
EP707	Standard solution R (red)	125ml
HADM1	HCl Dilution Matrix (10g/l HCl)	1 litre

REFERENCE BUFFER SOLUTIONS - ALL @ 25°C

These solutions comply with the Temperature v pH values as set out in Table 2.2.3 - 2 Ph. Eur. All contain a preservative to give extended shelf life

Product No	Description	Pack Size
EP168	pH Buffer solution 1.68@25°C	500ml
EP401	pH Buffer solution 4.01@25°C	500ml
EP687	pH Buffer solution 6.87@25°C	500ml
EP741	pH Buffer solution 7.41@25°C	500ml
EP918	pH Buffer solution 9.18@25°C	500ml

CONDUCTIVITY & RESISTIVITY SOLUTIONS - @20°C

Product No	Description	Pack Size
EP1330	Conductivity & Resistivity 1330us/cm @20°C	500ml
EP133	Conductivity & Resistivity 133 us/cm @20°C	500ml
EP266	Conductivity & Resistivity 26.6 us/cm @20°C	500ml

Reagents from other Pharmacopoeiae are also available upon request

REAGENTS AS OUTLINED IN CHAPTER 4 (4.1.1) OF Ph. Eur.

Product No	Description	Pack Size
1000401	Acetic acid (30%)	1L
1000402	Acetic acid,Dilute (12%)	1L
1000501	Acetic anhydride solution R1	1L
1002501	Alcohol, aldehyde-free	1L
1004702	Ammonia, dilute R1	1L
1004703	Ammonia, dilute R2	1L
1005201	Ammonium carbonate solution	1L
1007301	Anisaldehyde solution	100ml
1007302	Anisaldehyde solution R1	100ml
1009301	Barium chloride solution R1	1L
1009401	Barium hydroxide solution	1L
1011601	Biuret reagent	1L
1012601	Bromocresol green solution	100ml
1012602	Bromocresol green-methyl red solution	100ml
1012701	Bromocresol purple solution	100ml
1012801	Bromophenol blue solution	100ml
1012803	Bromophenol blue solution R2	100ml
1012901	Bromothymol Blue solution R1	100ml
1015201	Calcium sulphate solution	1L
1022901	Crystal violet solution	100ml
1023100	Cupri-citrus solution	1L
1023300A	Cupri-tartaric solution I	500ml
1023300B	Cupri-tartaric solution II	500ml

Product No	Description	Pack Size
1031101	Dimidium bromide - sulphan blue mixed solution	1L
1032101	Diphenylamine solution	1L
1032102	Diphenylamine solution R1	1L
1037702	Ferric ammonium sulphate solution R2	1L
1038100	Ferroin	100ml
1039101	Formaldehyde solution	100ml
1039401	Fuchsin solution, decolorised	100ml
1039402	Fuchsin solution decolorised R1	100ml
1043101	Holmium perchlorate solution	1L
1043501	Hydrochloric acid R1	1L
1043503	Hydrochloric acid, dilute	1L
1043504	Hydrochloric acid, dilute R1	1L
1045901	Iodine bromide solution	1L
1046300	Iodoplatinate reagent	200ml
1048001	Lanthanum nitrate solution	1L
1048101	Lead acetate cotton	1 bottle 10g
1048102	Lead acetate paper	pk of 50
1052101	Mercuric bromide paper	pk of 50
1053601	Methoxyphenylacetic reagent	100ml
1054801	Methyl orange mixed solution	100ml
1054802	Methyl orange solution	100ml

REAGENTS AS OUTLINED IN CHAPTER 4 (4.1.1) OF Ph. Eur.(CONTINUED)

Product No	Description	Pack Size
1055101	Methyl red mixed solution	100ml
1055102	Methyl red solution	100ml
1056700	Molybdovanadic reagent	100ml
1056801	Mordant black 11 triturate	100g
1057601	Naphtolbenzein solution	100ml
1058201	Nile blue A solution	100ml
1058303	Ninhydrin solution	100ml
1058304	Ninhydrin solution R1	100ml
1058305	Ninhydrin solution R2	100ml
1058402	Nitric acid, dilute	100ml
1062901	Perchloric acid solution	100ml
1063601	Phenol red solution	100ml
1063603	Phenol red solution R2	500ml
1063702	Phenolphthalein solution	100ml
1063703	Phenolphthalein solution R1	100ml
1065000	Phosphomolybdotungstic reagent	100ml
1065200	Phosphotungstic acid solution	100ml
1065801	Picric acid solution	100ml
1065802	Picric acid solution R1	100ml
1069101	Potassium chloride, 0.1M	1L
1069201	Potassium chromate solution	1L
1069501	Potassium dichromate solution	1L
1069801	Potassium ferrocyanide solution	100ml
1070001	Potassium hydrogen phthalate, 0.2M	1L
1070302	Potassium hydroxide in alcohol (10% v/v) 0.5M	1L
1070303	Potassium hydroxide sol, alcoholic	100ml

Product No	Description	Pack Size
1070501	Potassium iodide and starch solution	125ml
1070502	Potassium iodide solution	1L
1070600	Potassium iodobismuthate solution	100ml
1070602	Potassium iodobismuthate solution R2	100ml
1070902	Potassium permanganate solution	1L
1071301	Potassium pyroantimonate solution	125ml
1071600 A+B	Potassium tetraiodomercurate solution, alkaline (A+B)	100ml each
1075201	Ruthenium red solution	100ml
1078301	Silver nitrate solution R1	1L
1078302	Silver nitrate solution R2	1L
1079301	Sodium carbonate solution	1L
1081401	Sodium hydroxide solution	1L
1081402	Sodium hydroxide solution dilute	1L
1081404	Sodium hydroxide solution strong	1L
10816005	Sodium hypochlorite solution, strong	500ml
1083901	Sodium sulphide solution	100ml
1085103	Starch solution	100ml
1086804	Sulphuric acid, dilute	1L
1089602	Thioacetamide solution	1L
1090701	Thymolphthalein solution	100ml
1094201	Tris(hydroymethyl) aminomethane solution	100ml
1096601	Zinc chloride formic acid solution	1L
1096602	Zinc chloride solution, iodinated	1L
1102301	Zinc acetate solution	1L

Reagents from other Pharmacopoeiae are also available upon request

STANDARD SOLUTIONS FOR LIMIT TESTS AS OUTLINED IN CHAPTER 4 (4.1.2) OF Ph. Eur.

Product No	Description	Pack Size
5000200	Aluminium standard solution (200ppm Al)	100ml
5000300C	Concentrate to make Ammonium std solution. (100ppm NH_4)	100ml
5000500C	Concentrate to make Arsenic solution. (10ppm As)	100ml
5000700	Conc. to make Cadmium standard solution. (0.1% Cd)	100ml
5000800C	Concentrate to make Calcium solution. (400ppm Ca)	100ml
5000802C	Conc. to make Calcium solution. (100ppm Ca), alcoholic	100ml
5000900C	Concentrate to make Chloride solution. (8ppm Cl)	100ml
5001000	Chromium standard solution. (100ppm Cr)	1L
5001100	Copper standard solution. (0.1% Cu)	100ml
5001200C	Conc. to make Ferrocyanide solution (100ppm Fe)	100ml
5001400C	Conc. to make Fluoride solution (10ppm F)	100ml
5001600C	Conc. to make Iron solution (20ppm Fe)	100ml
5001602C	Conc. to make Iron solution (8ppm Fe)	100ml
5001701C	Concentrate to make Lead solution. (100ppm Pb)	100ml
5001800C	Conc to make Magnesium standard solution. (100ppm Mg)	100ml
5002000C	Conc. to make Nickel solution (10ppm Ni)	100ml
5002100C	Conc. to make Nitrate solution. (100ppm NO_3)	100ml
5002200C	Conc. to make Phosphate solution (5ppm PO_4)	100ml
5002400C	Conc. to make Potassium standard solution (100ppm K)	100ml
5002500	Selenium standard solution. (100ppm Se)	1L
5002700C	Conc. to make Sodium standard solution. (200ppm Na)	100ml
5002800C	Concentrate to make Sulphate solution (10ppm SO_4)	100ml
5003100C	Conc. to make Tin standard solution (5ppm Sn)	100ml
5003401C	Concentrate to make Zinc solution (100ppm Zn)	100ml

BUFFER SOLUTIONS AS OUTLINED IN CHAPTER 4 (4.1.3) of Ph. Eur.

Product No	Description		Pack Size
4000100	Buffered acetone solution		1L
4000600	Buffer solution	pH 3.5	1L
4001400	Acetate buffer solution	pH 4.6	1L
4004800	Phosphate buffer solution	pH 7.4	1L
4008300	Buffer (phosphate) solution	pH 9.0	1L
4007200	Ammonium chloride buffer	pH 9.5	1L
4007300	Ammonium chloride buffer	pH 10.0	1L



VOLUMTERIC SOLUTIONS AS OUTLINED IN CHAPTER 4 (4.2.2) OF Ph. Eur.

Product No	Description	Pack Size
3000100	0.1M Ammonium and Cerium nitrate	1L
3000200	0.01M Ammonium and Cerium nitrate	1L
3000300	0.1M Ammonium and Cerium sulphate	1L
3000500	0.1M Ammonium Thiocyanate	1L
3000600	0.1M Barium Chloride	1L
3000900	0.004M Benzethonium Chloride	1L
3001100	0.1M Cerium Sulphate	1L
3008700	1M Cupriethylenediamine Solution Hydroxide	1L
3001300	0.1M Ferric Ammonium Sulphate	1L
3001500	6M Hydrochloric Acid	1L
3001700	2M Hydrochloric Acid	1L
3001800	1M Hydrochloric Acid	1L
3002100	0.1M Hydrochloric Acid	1L
3008800	0.1M Hydrochloric Acid, Alcoholic	1L
3002700	0.05M Iodine	1L
3003100	0.1M Lead Nitrate	1L
3003300	0.1M Lithium Methoxide	1L
3003500	0.02M Mercuric Nitrate	1L
3003900	0.1M Perchloric Acid	1L
3004200	0.033M Potassium Bromate	1L
3002900	0.1M Iodine	1L
3009100	1.0M Potassium Hydroxide	1L
3004800	0.1M Potassium Hydroxide	1L
3004900	0.5M Potassium Hydroxide in Alcohol (60% v/v)	1L
3005000	0.5M Potassium Hydroxide, Alcoholic	1L
3005100	0.1M Potassium Hydroxide, Alcoholic	1L
3005300	0.02M Potassium Permanganate	1L
3005600	0.1M Silver Nitrate	1L
3009300	0.001M Silver Nitrate	1L
3005800	0.1M Sodium Arsenite	1L
3005900	0.1M Sodium Edetate	1L
3006300	1M Sodium Hydroxide	1L
3006600	0.1M Sodium Hydroxide	1L
3007000	0.1M Sodium Hydroxide, Ethanolic	1L
3007100	0.1M Sodium Methoxide	1L
3007200	0.1M Sodium Nitrite	1L
3007300	0.1M Sodium Thiosulphate	1L
3007800	0.5M Sulphuric Acid	1L
3008000	0.05M Sulphuric Acid	1L
3008300	0.1M Tetrabutylammonium Hydroxide	1L
3008400	0.1M Tetrabutylammonium Hydroxide in 2-propanol	1L
3008600	0.1M Zinc Sulphate	1L

ANALYTICAL VOLUMETRIC SOLUTIONS

Reagecon manufacture a complete range of volumetric solutions for all analytical laboratory applications which can be used for manual or automatic titrations. These are available as ready to use aqueous and non-aqueous titrants and in concentrated format.

READY TO USE AQUEOUS SOLUTIONS



This range of standardised solutions provides a convenient method for accurate volumetric analysis in the laboratory and a cost-effective answer to time and labour consuming preparation problems. These products are certified to a specification as outlined in the Certificate of Analysis. Lot No. and Expiry Date are printed on the label. Where possible, all of these solutions are certified traceable to N.I.S.T and this will be stated in the Certificate of Analysis. Please Note: All 10 litre pack sizes are in "Bag-in-Box" containers. (Please contact your distributor/Reagecon if you require 5L or 20L pack size "Bag-in-Box").

Product NO.	Description	Normality	Molarity	Pack Size
CH22005	Acetic Acid	2.0N	2.0M	5L
CH22001				1L
CH21005	Acetic Acid	1.0N	1.0M	5L
CH21001				1L
CH20055	Acetic Acid	0.5N	0.5M	5L
CH20051				1L
CH20105	Acetic Acid	0.1N	0.1M	5L
CH20101				1L
NH20105	Ammonia	0.1N	0.1M	5L
NH20101				1L
AS2055	Ammonium Sulphate	1.0N	0.5M	5L
AS2051				1L
AT2105	Ammonium Thiocyanate	1.0N	1.0M	2.5L
AT2101				1L
BACL2105	Barium Chloride	2.0N	1.0M	5L
BACL2101				1L
BACL2055	Barium Chloride	1.0N	0.5M	5L
BACL2051				1L
BACL20055	Barium Chloride	0.1N	0.05M	5L
BACL20051				1L
HY045	Benzethonium Chloride	0.04N	0.04M	5L
HY041				1L
HY0045	Benzethonium Chloride	0.004N	0.004M	5L
HY0041				1L
BR20105	Bromine (Bromate/bromide)	0.1N	0.05M	5L
BR20101				1L
CAAC2105	Calcium Acetate	1.0N	1.0M	5L
CAAC2101				1L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

Product NO.	Description	Normality	Molarity	Pack Size
CACL2055	Calcium Chloride	1.0N	0.5M	5L
CACL2051				1L
CACL20025	Calcium Chloride	0.04N	0.02M	5L
CACL20021				1L
CACL2001255	Calcium Chloride	0.025N	0.0125M	5L
CACL2001251				1L
CACL20015	Calcium Chloride	0.02N	0.01M	5L
CACL20011				1L
CACL20055	Calcium Chloride	0.01N	0.005M	5L
CACL20051				1L
CS2105	Cerium IV Sulphate	1.0N	1.0M	5L
CS2101				1L
CS20255	Cerium IV Sulphate	0.2N	0.2M	5L
CS20251				1L
CS2015	Cerium IV Sulphate	0.1N	0.1M	5L
CS2011				1L
CS20055	Cerium IV Sulphate	0.05N	0.05M	5L
CS20051				1L
CUS02055	Copper II Sulphate	0.5N	0.5M	5L
CUS02051				1L
CUS02015	Copper II Sulphate	0.1N	0.1M	5L
CUS02011				1L
CUCL2055	Copper II Chloride	0.5N	0.5M	5L
CUCL2051				1L
CU201685	Cupric Solution	0.168N	0.168M	5L
CU201681				1L
EDB50510	EDTA (Disodium salt)	1.0N	0.5M	10L
ED2055				5L
ED2051				1L
EDB20110	EDTA (Disodium salt)	0.2N	0.1M	10L
ED2015				5L
ED2011				1L
EDB200110	EDTA (Disodium salt)	0.02N	0.01M	10L
ED20015				5L
ED20011				1L
HB25010	Hydrochloric Acid	5.0N	5.0M	10L
H25005				5L
H25001				1L
HB235710	Hydrochloric Acid	3.57N	3.57M	10L
H23575				5L
H23571				1L
HB22010	Hydrochloric Acid	2.0N	2.0M	10L
H22005				5L
H22001				1L
H218025	Hydrochloric Acid	1.8N	1.8M	25L
H21805				5L
HB21010	Hydrochloric Acid	1.0N	1.0M	10L
H21005				5L
H21001				1L
HB20510	Hydrochloric Acid	0.5N	0.5M	10L
H20505				5L
H20501				1L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

Product NO.	Description	Normality	Molarity	Pack Size
HB2035710	Hydrochloric Acid	0.357N	0.357M	10L
H203575				5L
H203571				1L
HB202510	Hydrochloric Acid	0.25N	0.25M	10L
H20255				5L
H20251				1L
HB20210	Hydrochloric Acid	0.2N	0.2M	10L
H20205				5L
H20201				1L
HB20110	Hydrochloric Acid	0.1N	0.1M	10L
H20105				5L
H20101				1L
HB200510	Hydrochloric Acid	0.05N	0.05M	10L
H20055				5L
H20051				1L
HB20035710	Hydrochloric Acid	0.0357N	0.0357M	10L
H2003575				5L
H2003571	Hydrochloric Acid	0.0357N	0.0357M	1L
HB200210				10L
H20025	Hydrochloric Acid	0.02N	0.02M	5L
H20021				1L
HF20055	Hydrofluoric Acid	0.05N	0.05M	5L
HF20051				1L
I2050W	Iodine	1.0N	0.5M	2.5L
I2050F				1L
I2005W	Iodine	0.1N	0.05M	2.5L
I2005F				1L
I20023F	Iodine	0.0473N	0.02365M	1L
FES2025	Iron (II) Sulphate	0.2N	0.2M	5L
FES2021				1L
FECL215	Iron (III) Chloride	1.0N	1.0M	5L
FECL211				1L
PBA2055	Lead (II) Acetate	1.0N	0.5M	5L
PBA2051				1L
PBA20055	Lead (II) Acetate	0.1N	0.05M	5L
PBA20051				1L
PBNO2055	Lead (II) Nitrate	1.0N	0.5M	5L
PBNO2051				1L
MG2015	Magnesium Chloride	0.2N	0.1M	5L
MG2011				1L
MG20015	Magnesium Chloride	0.02N	0.01M	5L
MG20011				1L
MGSO2015	Magnesium Sulphate	0.1N	0.1M	5L
MGS2011				1L
MNCL2055	Manganese (II) Chloride	0.5N	0.5M	5L
MNCL2051				1L
MNCL20055	Manganese (II) Chloride	0.05N	0.05M	5L
MNCL20051				1L
HGN2015	Mercury (I) Nitrate	0.1N	0.1M	5L
HGN2011				1L
HGN20015	Mercury (II) Nitrate	0.02N	0.01M	5L
HGN20011				1L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

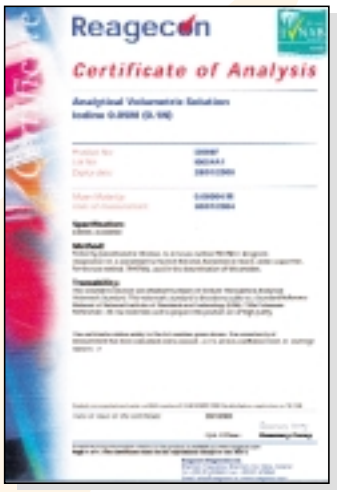
Product NO.	Description	Normality	Molarity	Pack Size
HGN200055	Mercury (II) Nitrate	0.01N	0.005M	5L
HGN200051				1L
NICL2055	Nickel (II) Chloride	0.5N	0.5M	5L
NICL2051				1L
NICL20055	Nickel (II) Chloride	0.05N	0.05M	5L
NICL20051				1L
NOB280010	Nitric Acid	8.0N	8.0M	10L
NO28005				5L
NO28001				1L
NOB240010	Nitric Acid	4.0N	4.0M	10L
NO24005				5L
NO24001				1L
NOB220010	Nitric Acid	2.0N	2.0M	10L
NO22005				5L
NO22001				1L
NOB210010	Nitric Acid	1.0N	1.0M	10L
NO21005				5L
NO21001				1L
NOB20110	Nitric Acid	0.1N	0.1M	10L
NO20105				5L
NO20101				1L
NOB200210	Nitric Acid	0.02N	0.02M	10L
NO20025				5L
NO20021				1L
OA2055	Oxalic Acid	1.0N	0.5M	5L
OA2051				1L
OA20055	Oxalic Acid	0.1N	0.05M	5L
OA20051				1L
OA200255	Oxalic Acid	0.05N	0.025M	5L
OA200251				1L
P2050F	Perchloric Acid in Acetic Acid	0.5N	0.5M	1L
P2050H				500ml
P2010W	Perchloric Acid in Acetic Acid	0.1N	0.1M	2.5L
P2010F				1L
P2010H				500ml
KB20016W	Potassium Bromate/Bromide	0.1N	0.0167M	2.5L
KB20016F				1L
KCL2105	Potassium Chloride	1.0N	1.0M	5L
KCL2101				1L
KCL2025	Potassium Chloride	0.2N	0.2M	5L
KCL2021				1L
KC2016W	Potassium Dichromate	1.0N	0.167M	2.5L
KC2016F				1L
KC20041W	Potassium Dichromate	0.25N	0.041M	2.5L
KC20041F				1L
KC20016W	Potassium Dichromate	0.1N	0.0167M	2.5L
KC20016F				1L
KC2002W	Potassium Dichromate	0.125N	0.0208M	2.5L
KC2002F				1L
KFE2015	Potassium Ferricyanide	0.1N	0.1M	5L
KFE2011				1L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

Product NO.	Description	Normality	Molarity	Pack Size
PHP2015	Potassium Hydrogen	0.1N	0.1M	5L
PHP2011	Phthalate			1L
KOHB2110	Potassium Hydroxide	1.0N	1.0M	10L
KOH21005				5L
KOH21001				1L
KOHB20110	Potassium Hydroxide	0.1N	0.1M	10L
KOH20105				5L
KOH20101				1L
KOHB205010	Potassium Hydroxide	0.5N	0.5M	10L
KOH20505				5L
KOH20501				1L
KOHB200510	Potassium Hydroxide	0.05N	0.05M	10L
KOH20055				5L
KOH20051				1L
PII2002W	Potassium Iodate/Iodide	0.02N	0.00333M	2.5L
PII2002H				500ml
PI2005W	Potassium Iodate	0.3N	0.05M	2.5L
PI20025W	Potassium Iodate	0.15N	0.025M	2.5L
PI20016W	Potassium Iodate	0.1N	0.01667M	2.5L
K12305	Potassium Iodide	3.0N	3.0M	5L
K12301				1L
KI2105	Potassium Iodide	1.0N	1.0M	5L
KI2101				1L
KI2015	Potassium Iodide	0.1N	0.1M	5L
KI2011				1L
KO20055	di-Potassium Oxalate	0.1N	0.05M	5L
KO20051				1L
PP2020W	Potassium Permanganate	1.0N	0.2M	2.5L
PP2020F				1L
PP2002W	Potassium Permanganate	0.1N	0.02M	2.5L
PP2002F				1L
PP2001W	Potassium Permanganate	0.05N	0.01M	2.5L
PP2001F				1L
KT210W	Potassium Thiocyanate	1.0N	1.0M	2.5L
KT210F				1L
KT201W	Potassium Thiocyanate	0.1N	0.1M	2.5L
KT201F				1L
KT2005W	Potassium Thiocyanate	0.05N	0.05M	2.5L
KT2005F				1L
KT2002W	Potassium Thiocyanate	0.02N	0.02M	2.5L
KT2002F				1L
N21000W	Silver Nitrate	1.0N	1.0M	2.5L
N21000F				1L
N21000H				500ml
N201709W	Silver Nitrate	0.1709N	0.1709M	2.5L
N20100W	Silver Nitrate	0.1N	0.1M	2.5L
N20100F				1L
N20100H				500ml
N20085W	Silver Nitrate	0.085N	0.085M	2.5L
N20050W	Silver Nitrate	0.05N	0.05M	2.5L
N20028W	Silver Nitrate	0.0282N	0.0282M	2.5L
N20025F	Silver Nitrate	0.025N	0.025M	1L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)





ELECTRODES ARE AVAILABLE FROM REAGECON AND ARE COMPATIBLE WITH ALL MAKES AND MODELS OF AUTO-TITRATORS

Product NO.	Description	Normality	Molarity	Pack Size
N20020W	Silver Nitrate	0.02N	0.02M	2.5L
N20020F				1L
N20014W	Silver Nitrate	0.0141N	0.0141M	2.5L
SA2005W	Sodium Arsenite	0.1N	0.5M	2.5l
SC20505	Sodium Carbonate	1.0N	0.5M	5L
SC20501				1L
SC20055	Sodium Carbonate	0.1N	0.05M	5L
SC20051				1L
NACL2015	Sodium Chloride	0.1N	0.1M	5L
NACL2011				1L
NACL20055	Sodium Chloride	0.05N	0.05M	5L
NACL20051				1L
SB250010	Sodium Hydroxide	5.0N	5.0M	10L
S25005				5L
S25001				1L
SB235710	Sodium Hydroxide	3.57N	3.57M	10L
S23575				5L
S23571				1L
SB220010	Sodium Hydroxide	2.0N	2.0M	10L
S22005				5L
S22001				1L
S212025	Sodium Hydroxide	1.2N	1.2M	25L
SB212010				10L
SB21205				5L
SB210010	Sodium Hydroxide	1.0N	1.0M	10L
S21005				5L
S21001				1L
S20625	Sodium Hydroxide	0.6N	0.6M	25L
S2065				5L
SB205010	Sodium Hydroxide			10L
S20505		0.5N	0.5M	5L
S20501				1L

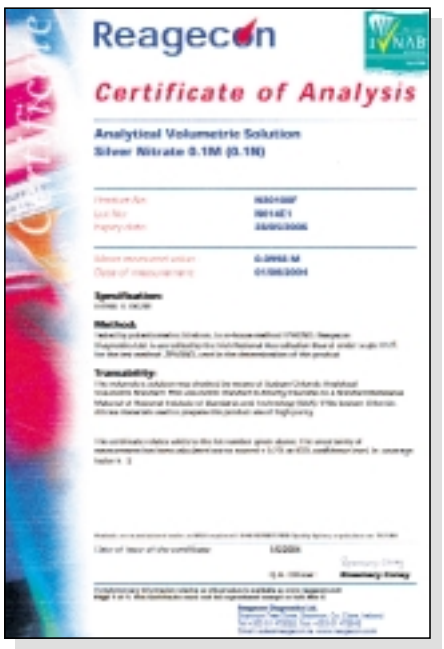
READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

Product NO.	Description	Normality	Molarity	Pack Size
S2035465	Sodium Hydroxide	0.35465N	0.35465M	5L
S2035461				1L
S203135	Sodium Hydroxide	0.313N	0.313M	5L
S203131				1L
S20255	Sodium Hydroxide	0.25N	0.25M	5L
S20251				1L
SB202010	Sodium Hydroxide	0.2N	0.2M	10L
S20205				5L
S20201				1L
S20115	Sodium Hydroxide	0.111N	0.111M	5L
S20111				1L
SB20110	Sodium Hydroxide	0.1N	0.1M	10L
S20105				5L
S20101				1L
S20025	Sodium Hydroxide	0.02N	0.02M	5L
S20021				1L
S21005LC	Sodium Hydroxide	1.0N	1.0M	5L
S21001LC	(Low in carbonate)			1L
S20505LC	Sodium Hydroxide	0.5N	0.5M	5L
S20501LC	(Low in carbonate)			1L
S20105LC	Sodium Hydroxide	0.1N	0.1M	5L
S20101LC	(Low in carbonate)			1L
NANO055	Sodium Nitrite	0.5N	0.5M	5L
NANO051				1L
NAT21005	Sodium Thiocyanate	1.0N	1.0M	5L
NAT21001				1L
NAT20105	Sodium Thiocyanate	0.1N	0.1M	5L
NAT20101				1L
TB210010	Sodium Thiosulphate	1.0N	1.0M	10L
T21005				5L
T21001				1L
TB201010	Sodium Thiosulphate	0.1N	0.1M	10L
T20105				5L
T20101				1L
T2005515	Sodium Thiosulphate	0.0551N	0.0551M	5L
T2005511				1L
T20055	Sodium Thiosulphate	0.05N	0.05M	5L
T20051				1L
TB200110	Sodium Thiosulphate	0.01N	0.01M	10L
T20015				5L
T20011				1L
SUB250010	Sulphuric Acid	10.0N	5.0M	10L
SU25005				5L
SU25001				1L
SUB225010	Sulphuric Acid	5.0N	2.5M	10L
SU22505				5L
SU22501				1L
SUB210010	Sulphuric Acid	2.0N	1.0M	10L
SU21005				5L
SU21001				1L
SU20925	Sulphuric Acid	1.8N	0.9M	25L
SU2095				5L

READY TO USE AQUEOUS SOLUTIONS (CONTINUED)

Product NO.	Description	Normality	Molarity	Pack Size
SUB205010	Sulphuric Acid	1.0N	0.5M	10L
SU20505				5L
SU20501				1L
SU203195	Sulphuric Acid	0.638N	0.319M	5L
SU203191				1L
SUB202510	Sulphuric Acid	0.5N	0.25M	10L
SU20255				5L
SU20251				1L
SU20135	Sulphuric Acid	0.26N	0.13M	5L
SU20131				1L
SU2012755	Sulphuric Acid	0.255N	0.1275M	5L
SU2012751				1L
SU20105	Sulphuric Acid	0.2N	0.1M	5L
SU20101				1L
SU20055	Sulphuric Acid	0.1N	0.05M	5L
SU20051				1L
SU20015	Sulphuric Acid	0.02N	0.01M	5L
SU20011				1L
SU2004165	Sulphuric Acid	0.0832N	0.0416M	5L
SU2004161				1L
ZNCL20105	Zinc Chloride	0.1N	0.01M	5L
ZNCL20101				1L
ZNCL20505	Zinc Chloride	0.5N	0.5M	5L
ZNCL20501				1L
ZNSO00505	Zinc Sulphate	0.05N	0.05M	5L
ZNSO00501				1L
ZNSO0105	Zinc Sulphate	0.1N	0.1M	5L
ZS011				1L

REAGENTS EXPRESSED IN UNITS OF MOLARITY (NORMALITY), SPECIFIC GRAVITY AND PERCENTAGE (v/v, w/v, w/w) WHICH ARE NOT LISTED IN CATALOGUE ARE ALSO AVAILABLE. SEE PAGE 64 (CUSTOMISED REAGENTS) TO REQUEST QUOTATION.


Reagecon
Certificate of Analysis
Analytical Volumetric Solution
Silver Nitrate 0.1M (0.1N)

ANALYTICAL VOLUMETRIC SOLUTIONS

NON AQUEOUS TITRANTS



Product No	Description	Pack Size
MH2050	0.5N Methanolic HCl	2.5L
MD2050	0.5N Morpholine in Methanol	2.5L
PM2005	0.1N Potassium Methoxide	500ml
TB010H	0.1N Tetra n Butyl Ammonium Hydroxide in 50/50 Methanol/Propan-2-ol	500ml
TB050H	0.5N Tetra n Butyl Ammonium Hydroxide in 50/50 Methanol / Propan-2-ol	500ml
TB002H	0.02N Tetra N Butyl Ammonium Hydroxide in 50/50 Methanol / propan-2-ol	500ml
ETKOH1F	1.0N Potassium Hydroxide in Ethanol	1L
ETKOH1W		2.5L
ETKOH05F	0.5N Potassium Hydroxide in Ethanol	1L
ETKOHO5W		2.5L
ETKOH01F	0.1N Potassium Hydroxide in Ethanol	1L
ETKOH01W		2.5L
MKOH1F	1.0N Potassium Hydroxide in Methanol	1L
MKOH1W		2.5L
MKOH205F	0.5N Potassium Hydroxide in Methanol	1L
MKOH205W		2.5L
MKOH01F	0.1N Potassium Hydroxide in Methanol	1L
MKOH01W		2.5L
LIM2015	0.1 Lithium Methoxide in Toluene/Methanol	500ml
P2010H	0.1N Perchloric Acid in Acetic Acid	500ml
P2010W		2.5L
PD201W	0.1N Perchloric Acid in 1.4 Dioxan	2.5L
MN2010F	0.1N Silver Nitrate in Methanol	1L
MN2010H		500ml
MN2001OF	0.01N Silver Nitrate in Methanol	1L
MN2001OH		500ml

CONCENTRATED VOLUMETRIC SOLUTIONS

Reagecon has recently revised the packaging on this range. Each ampoule is supplied in its own box. Full instructions for use are printed on the box.

Product No	Description	Pack Size
		1 Ampoule to make
CHC101L	Acetic Acid 1.0N (1.0M)	1L
NH4C101L	Ammonia 1.0N (1.0M)	1L
NH4C011L	Ammonia 0.1N (0.1M)	1L
NHTC011L	Ammonium Thiocyanate 0.1N (0.1M)	1L
EDC0101L	EDTA (di Sodium Salt) 0.2N (0.1M)	1L
EDC0011L	EDTA (di Sodium Salt) 0.02N (0.01M)	1L
ETC0051L	EDTA (tri Sodium Salt)) 0.1N (0.1M	1L
HC1001L	Hydrochloric Acid 1.0N (1.0M)	1L
HC0501L	Hydrochloric Acid 0.5N (0.5M)	1L
HC0201L	Hydrochloric Acid 0.2N (0.2M)	1L
HC0101L	Hydrochloric Acid 0.1N (0.1M)	1L
IC0051GL	Iodine 0.1N (0.05M)	1L
IC025G1L	Iodine 0.05N (0.025M)	1L
IC0251	Iodine 0.025N (0.0125M)	1L
IC00051L	Iodine 0.01N (0.005M)	1L
NOC101L	Nitric Acid 1.0N (1.0M)	1L
PCO021GL	Potassium Permanganate 0.1N (0.02M)	1L
NC0101L	Silver Nitrate 0.1N (0.1M)	1L
NC00281L	Silver Nitrate 0.0282N (0.0282M)	1L
SC1001L	Sodium Hydroxide 1.0N (1.0M)	1L
SC0501L	Sodium Hydroxide 0.5N (0.5M)	1L
SC0101L	Sodium Hydroxide 0.1N (0.1M)	1L
TC0101L	Sodium Thiosulphate 0.1N (0.1M)	1L
TC00121L	Sodium Thiosulphate 0.0125N (0.0125M)	1L
SUC051L	Sulphuric Acid 1.0N (0.5M)	1L
SUC0051L	Sulphuric Acid 0.1N (0.05M)	1L
SUC0011L	Sulphuric Acid 0.02N (0.01M)	1L

INORGANIC STANDARDS FOR PLASMA EMISSION SPECTROSCOPY ICP • DCP • ICP-MS

Reliability:

Reagecon have been manufacturing inorganic Standards, Controls and Calibrators for Spectroscopy for almost two decades. During that time the Company has established itself as a highly reliable primary producer of top quality standards. Our customer base in over 30 countries is testament of our efforts to be leaders in an ever changing field where limits of detection are becoming exceedingly demanding.

Experience:

Reagecon have built up a wealth of experience and knowledge unparallelled in standards Technology. We have forseen the growth in Plasma Emission Spectroscopy and have responded with over 70 top quality single element and several multi-element Standards. The endeavours of our Chemists to build specificity, accuracy and stability into long lasting and cost effective formulations is gaining worldwide acceptance

Economical:

Reagecon's Plasma Emission Spectroscopy Standards are produced in attractive twin neck 100ml and 250ml economy pack sizes, significantly increasing the value for money aspect of Reagecon Standards and makes the most expensive element affordable.

Controlled:

Reagecon's Standards are manufactured in a highly controlled and sophisticated environment.

- High purity starting materials
- < 18 megaohm water
- High purity matrix material
- Pre-leached and pre-cleaned bottle.

Options:

Reagecon offer more options than almost any other manufacturer.

- Up to 70 single element standards
- Many multi - element
- Several matrices
- Concentration options
- Pack size options
- Customised Standards

All at the highest quality and at an affordable price.

New Packaging:

Reagecon is pleased to announce the introduction of it's new twin neck bottle which completely eliminates the risk of contamination, evaporation or interference with the Standard contents. This new format ensures.

- Longer shelf
- No risk of contamination
- Greater accuracy
- Reduced cost per test

INORGANIC SPECTROSCOPY STANDARDS

Element Product No.	Matrix	Conc µg/ml	Pack Size
Aluminum			
PAl2B2		1,000µg/ml	250ml
PAl2A2	2-5% HNO_3	1,000µg/ml	100ml
PAl4B2		10,000µg/ml	250ml
PAl2B3	2-5% HCl	1,000µg/ml	250ml
PAl4B3		10,000µg/ml	250ml
Antimony			
PSb2B4	6%Tartaric	1,000µg/ml	250ml
PSb2A4	Acid	1,000µg/ml	100ml
PSb4B4	+ tr HNO_3	10,000µg/ml	250ml
PSb2B5	20% HCl	1,000µg/ml	250ml
PSb4B5	(in Teflon)	10,000µg/ml	250ml
Arsenic			
PAs2B2	2-5% HNO_3	1,000µg/ml	250ml
PAs2A2		1,000µg/ml	100ml
PAs4B2		10,000µg/ml	250ml
PAs2B3	2-5% HCl	1,000µg/ml	250ml
PAs4B3		10,000µg/ml	250ml
Barium			
PBa2B2	2-5% HNO_3	1,000µg/ml	250ml
PBa2A2		1,000µg/ml	100ml
PBa4B2		10,000µg/ml	250ml
PBa2B3	2-5% HCl	1,000µg/ml	250ml
PBa4B3		10,000µg/ml	250ml
Beryllium			
PBe2B2	2-5% HNO_3	1,000µg/ml	250ml
PBe2A2		1,000µg/ml	100ml
PBe4B2		10,000µg/ml	250ml
Bismuth			
PBi2B6	10% HNO_3	1,000µg/ml	250ml
PBi2A6		1,000µg/ml	100ml
PBi4B6		10,000µg/ml	250ml
Boron			
PB2B7	H2O	1,000µg/ml	250ml
PB2A7		1,000µg/ml	100ml
PB4B7		10,000µg/ml	250ml
Cadmium			
PCd2B2	2-5% HNO_3	1,000µg/ml	250ml
PCd2A2		1,000µg/ml	100ml
PCd4B2		10,000µg/ml	250ml
PCd2B3	2-5% HCl	1,000µg/ml	250ml
PCd4B3		10,000µg/ml	250ml

Element Product No.	Matrix	Conc µg/ml	Pack Size
Calcium			
PCa2B2	2-5% HNO_3	1,000µg/ml	250ml
PCa2A2		1,000µg/ml	100ml
PCa4B2		10,000µg/ml	250ml
PCa2B3	2-5% HCl	1,000µg/ml	250ml
PCa4B3		10,000µg/ml	250ml
Carbon			
PC2B7	H_2O	1,000µg/ml	250ml
PC2A7		1,000µg/ml	100ml
PC4B7		10,000µg/ml	250ml
Cerium			
PCe2B2	2-5% HNO_3	1,000µg/ml	250ml
PCe2A2		1,000µg/ml	100ml
PCe4B2		10,000µg/ml	250ml
Cesium			
PCs2B2	2-5% HNO_3	1,000µg/ml	250ml
PCs2A2		1,000µg/ml	100ml
PCs4B2		10,000µg/ml	250ml
Chromium			
PCr2B2	2-5% HNO_3	1,000µg/ml	250ml
PCr2A2		1,000µg/ml	100ml
PCr4B2		10,000µg/ml	250ml
PCr2B3	2-5% HCl	1,000µg/ml	250ml
PCr4B3		10,000µg/ml	250ml
PCr2B7	H_2O	1,000µg/ml	250ml
PCr4B7		10,000µg/ml	250ml
Cobalt			
PCo2B2	2-5% HNO_3	1,000µg/ml	250ml
PCo2A2		1,000µg/ml	100ml
PCo4B3	2-5% HCl	10,000µg/ml	250ml
Copper			
PCu2B2	2-5% HNO_3	1,000µg/ml	250ml
PCu2A2		1,000µg/ml	100ml
PCu4B2		10,000µg/ml	250ml
PCu2B3	2-5% HCl	1,000µg/ml	250ml
PCu4B3		10,000µg/ml	250ml
Dysprosium			
PDy2B2	2-5% HNO_3	1,000µg/ml	250ml
PDy2A2		1,000µg/ml	100ml
PDy4B2		10,000µg/ml	250ml

INORGANIC SPECTROSCOPY STANDARDS

Element Product No.	Matrix	Conc µg/ml	Pack Size
Erbium			
PEr2B2	2-5% HNO_3	1,000µg/ml	250ml
PEr2A2		1,000µg/ml	100ml
PEr4B2		10,000µg/ml	250ml
Europium			
PEu2B2	2-5% HNO_3	1,000µg/ml	250ml
PEu2A2		1,000µg/ml	100ml
PEu4B2		10,000µg/ml	250ml
Gadolinium			
PGd2B2	2-5% HNO_3	1,000µg/ml	250ml
PGd2A2		1,000µg/ml	100ml
Pgd4B2		10,000µg/ml	250ml
Gallium			
PGa2B2	2-5% HNO_3	1,000µg/ml	250ml
PGa2A2		1,000µg/ml	100ml
PGa4B2		10,000µg/ml	250ml
Germanium			
PGe2B7	H_2O/tr HF	1,000µg/ml	250ml
PGe2A7		1,000µg/ml	100ml
PGe4B7		10,000µg/ml	250ml
Gold			
PAu2B8	10% HCl	1,000µg/ml	250ml
PAu2A8		1,000µg/ml	100ml
PAu4B8		10,000µg/ml	250ml
Hafnium			
PHf2B3	2-5% HCl	1,000µg/ml	250ml
PHf2A3		1,000µg/ml	100ml
PHf4B3		10,000µg/ml	250ml
Holmium			
PHo2B2	2-5% HNO_3	1,000µg/ml	250ml
PHo2A2		1,000µg/ml	100ml
PHo4B2		10,000µg/ml	250ml
Indium			
PIn2B2	2-5% HNO_3	1,000µg/ml	250ml
PIn2A2		1,000µg/ml	100ml
PIn4B2		10,000µg/ml	250ml
Iridum			
PIr2B8	10% HCl	1,000µg/ml	250ml
PIr2A8		1,000µg/ml	100ml
PIr4B8		10,000µg/ml	250ml

Element Product No.	Matrix	Conc µg/ml	Pack Size
Iron			
PFe2B2	2-5% HNO_3	1,000µg/ml	250ml
PFe2A2		1,000µg/ml	100ml
PFe4B2		10,000µg/ml	250ml
PFe2B3	2-5% HCl	1,000µg/ml	250ml
PFe4B3		10,000µg/ml	250ml
Lanthanum			
PLa2B2	2-5% HNO_3	1,000µg/ml	250ml
PLa2A2		1,000µg/ml	100ml
PLa4B2		10,000µg/ml	250ml
Lead			
PPb2B2	2-5% HNO_3	1,000µg/ml	250ml
PPb2A2		1,000µg/ml	100ml
PPb4B2		10,000µg/ml	250ml
Lithium			
PLi2B2	2-5% HNO_3	1,000µg/ml	250ml
PLi2A2		1,000µg/ml	100ml
PLi4B2		10,000µg/ml	250ml
PLi2B3	2-5% HCl	1,000µg/ml	250ml
PLi4B3		10,000µg/ml	250ml
Lutetium			
PLu2B2	2-5% HNO_3	1,000µg/ml	250ml
PLu2A2		1,000µg/ml	100ml
PLu4B2		10,000µg/ml	250ml
Magnesium			
PMg2B2	2-5% HNO_3	1,000µg/ml	250ml
PMg2A2		1,000µg/ml	100ml
PMg4B2		10,000µg/ml	250ml
PMg2B3	2-5% HCl	1,000µg/ml	250ml
PMg4B3		10,000µg/ml	250ml
Manganese			
PMn2B2	2-5% HNO_3	1,000µg/ml	250ml
PMn2A2		1,000µg/ml	100ml
PMn4B2		10,000µg/ml	250ml
Mercury			
PHg2B6	10% HNO_3	1,000µg/ml	250ml
PHg2A6		1,000µg/ml	100ml
PHg4B6		10,000µg/ml	250ml
Molybdenum			
PMo2B7	H_2O	1,000µg/ml	250ml
PMo2A7		1,000µg/ml	100ml
PMo4B7		10,000µg/ml	250ml

INORGANIC SPECTROSCOPY STANDARDS

Element Product No.	Matrix	Conc µg/ml	Pack Size
Neodymium			
PNd2B2	2-5% HNO_3	1,000µg/ml	250ml
PNd2A2		1,000µg/ml	100ml
PNd4B2		10,000µg/ml	250ml
Nickel			
PNi2B2	2-5% HNO_3	1,000µg/ml	250ml
PNi2A2		1,000µg/ml	100ml
PNi4B2		10,000µg/ml	250ml
Niobium			
PNb2B9	H_2O/tr HF	1,000µg/ml	250ml
PNb2A9		1,000µg/ml	100ml
PNb4B9		10,000µg/ml	250ml
Palladium			
PPd2B8	10% HCl	1,000µg/ml	250ml
PPd2A8		1,000µg/ml	100ml
PPd4B8		10,000µg/ml	250ml
Phosphorus			
PP2B7	H_2O	1,000µg/ml	250ml
PP2A7		1,000µg/ml	100ml
PP4B7		10,000µg/ml	250ml
Platinum			
PPt2B8	10% HCl	1,000µg/ml	250ml
PPt2A8		1,000µg/ml	100ml
PPt4B8		10,000µg/ml	250ml
Potassium			
PK2B2	2-5% HNO_3	1,000µg/ml	250ml
PK2A2		1,000µg/ml	100ml
PK4B2		10,000µg/ml	250ml
PK2B3	2-5% HCl	1,000µg/ml	250ml
PK4B3		10,000µg/ml	250ml
Praseodymium			
PPr2B2	2-5% HNO_3	1,000µg/ml	250ml
PPr2A2		1,000µg/ml	100ml
PPr4B2		10,000µg/ml	250ml
Rhenium			
PRe2B7	H_2O	1,000µg/ml	250ml
PRe2A7		1,000µg/ml	100ml
PRe4B7		10,000µg/ml	250ml
Rhodium			
PRh2B8	10% HCl	1,000µg/ml	250ml
PRh2A8		1,000µg/ml	100ml
PRh4B8		10,000µg/ml	250ml

Element Product No.	Matrix	Conc µg/ml	Pack Size
Rubidium			
PRb2B2	2-5% HNO_3	1,000µg/ml	250ml
PRb2A2		1,000µg/ml	100ml
PRb4B2		10,000µg/ml	250ml
Ruthenium			
PRu2B8	10% HCl	1,000µg/ml	250ml
PRu2A8		1,000µg/ml	100ml
PRu4B8		10,000µg/ml	250ml
`Samarim			
PSm2B2	2-5% HNO_3	1,000µg/ml	250ml
PSm2A2		1,000µg/ml	100ml
PSm4B2		10,000µg/ml	250ml
Scandium			
PSc2B2	2-5% HNO_3	1,000µg/ml	250ml
PSc2A2		1,000µg/ml	100ml
PSc4B2		10,000µg/ml	250ml
Selenium			
PSe2B2	2-5% HNO_3	1,000µg/ml	250ml
PSe2A2		1,000µg/ml	100ml
PSe4B2		10,000µg/ml	250ml
Silicon			
PSi2B9	H_2O/tr HF	1,000µg/ml	250ml
PSi2A9		1,000µg/ml	100ml
PSi4B9		10,000µg/ml	250ml
PSi2B7	H_2O	1,000µg/ml	250ml
PSi4B7		10,000µg/ml	250ml
Silver			
PAg2B2	2-5% HNO_3	1,000µg/ml	250ml
PAg2A2		1,000µg/ml	100ml
PAg4B2		10,000µg/ml	250ml
Sodium			
PNa2B2	2-5% HNO_3	1,000µg/ml	250ml
PNa2A2		1,000µg/ml	100ml
PNa4B2		10,000µg/ml	250ml
PNa2B3	2-5% HCl	1,000µg/ml	250ml
PNa4B3		10,000µg/ml	250ml
Strontium			
PSr2B2	2-5% HNO_3	1,000µg/ml	250ml
PSr2A2		1,000µg/ml	100ml
PSr4B2		10,000µg/ml	250ml
PSr2B3	2-5% HCl	1,000µg/ml	250ml
PSr4B3		10,000µg/ml	250ml

INORGANIC SPECTROSCOPY STANDARDS

Element Product No.	Matrix	Conc µg/ml	Pack Size
Sulphur			
PS2B7	H_2O	1,000µg/ml	250ml
PS2A7		1,000µg/ml	100ml
PS4B7		10,000µg/ml	250ml
Tantalum			
PTa2B9	H_2O/tr HF	1,000µg/ml	250ml
PTa2A9		1,000µg/ml	100ml
PTa4B9		10,000µg/ml	250ml
Tellurium			
PTe2B10	5% HNO_3	1,000µg/ml	250ml
PTe2A10		1,000µg/ml	100ml
PTe4B11	20% HNO_3	10,000µg/ml	250ml
PTe2B8	10% HCl	1,000µg/ml	250ml
PTe4B12	30% HCl (Teflon)	10,000µg/ml	250ml
Terbium			
PTb2B2	2-5% HNO_3	1,000µg/ml	250ml
PTb2A2		1,000µg/ml	100ml
PTb4B2		10,000µg/ml	250ml
Thallium			
PTI2B2	2-5% HNO_3	1,000µg/ml	250ml
PTI2A2		1,000µg/ml	100ml
PTI4B2		10,000µg/ml	250ml
Thorium			
PTh2B2	2-5% HNO_3	1,000µg/ml	250ml
PTh2A2		1,000µg/ml	100ml
PTh4B2		10,000µg/ml	250ml
Thulium			
PTm2B2	2-5% HNO_3	1,000µg/ml	250ml
PTm2A2		1,000µg/ml	100ml
PTm4B2		10,000µg/ml	250ml
Tin			
PSn2B13	1% HNO_3/ 1%HF	1,000µg/ml	250ml
PSn4B19	2% HNO_3	10,000µg/ml	250ml
PSn2B5	20% HCL/	1,000µg/ml	250ml
PSn2A5	1% HF	1,000µg/ml	100ml
PSn4B5	in Teflon	10,000µg/ml	250ml
Titanium			
PTi2B9	H_2O/tr HF	1,000µg/ml	250ml
PTi2A9		1,000µg/ml	100ml
PTi4B9		10,000µg/ml	250ml
PTi2B5	20% HCl	1,000µg/ml	250ml
PTi4B5	40% HCL (Teflon)	10,000µg/ml	250ml

Element Product No.	Matrix	Conc µg/ml	Pack Size
Tungsten			
PW2B7	H_2O	1,000µg/ml	250ml
PW2A7		1,000µg/ml	100ml
PW4B7		10,000µg/ml	250ml
PW2B14	1% HNO_3 +2%HF	1,000µg/ml	250ml
PW4B15	2% HNO_3 +5%HF	10,000µg/ml	250ml
Uranium			
PU2B2	2-5% HNO_3	1,000µg/ml	250ml
PU2A2		1,000µg/ml	100ml
PU4B2		10,000µg/ml	250ml
Vanadium			
PV2B19	2% HNO_3	1,000µg/ml	250ml
PV2A19		1,000µg/ml	100ml
PV4B16	15% HNO_3	10,000µg/ml	250ml
PV2B3	2% HCl	1,000µg/ml	250ml
PV4B18	15% HCl	10,000µg/ml	250ml
Ytterbium			
PYb2B2	2-5% HNO_3	1,000µg/ml	250ml
PYb2A2		1,000µg/ml	100ml
PYb4B2		10,000µg/ml	250ml
Yttrium			
PY2B2	2-5% HNO_3	1,000µg/ml	250ml
PY2A2		1,000µg/ml	100ml
PY4B2		10,000µg/ml	250ml
Zinc			
PZn2B2	2-5% HNO_3	1,000µg/ml	250ml
PZn2A2		1,000µg/ml	100ml
PZn4B2		10,000µg/ml	250ml
PZn2B3	2-5% HCl	1,000µg/ml	250ml
PZn4B3		10,000µg/ml	250ml
Zirconium			
PZr2B2	2-5% HNO_3	1,000µg/ml	250ml
PZr2A2		1,000µg/ml	100ml
PZr4B2		10,000µg/ml	250ml
PZr2B8	10% HCl	1,000µg/ml	250ml
MATRIX BLANKS			
MATHN05	5% HNO_3 in ASTM Type 1 Water		500ml
MATHN01			1L
MATHCL5	5% HCl in ASTM Type 1 Water		500ml
MATHCL1			1L
MATH205	ASTM Type 1 Water)		500ml
MATH201			1L
MATMIX15	Mixed acid - 5% HCl		500ml
MATMIX11	and 1% HNO_3 in ASTM Type 1 Water		1L

MULTI ELEMENT STANDARDS FOR PLASMA EMISSION SPECTROSCOPY

CUSTOMISED FOR EVERY APPLICATION

As a spectroscopist you may be faced with many problems when making trace element determinations.
These problems include:

- Presence of more than one major sample constituents
- Inter element interferences
- Matrix effects

These problems and others are exacerbated as you strive for greater reproducibility, sensitivity and specificity. Reagecon can help you remove some of these variables with our new range of comprehensive multi-element standards.

We will be happy to look at:

- Which elements you would like to combine
- Concentrations
- Matrices

Depending on concentration and interferences, all of over 70 elements listed on previous pages, can be combined into customised cocktails, containing up to 30 individual elements depending on inter-element compatibility, solubility and matrix considerations.

The elements in Reagecon multi-element standards can be present in widely varying concentrations and utilise the same ultra-pure raw materials. Please contact sales@reagecon.ie for further information.


Reagecon

Certificate of Quality

Inorganic Standards for Plasma Emission Spectroscopy

Aluminium 1000±10µg/ml 2-5% nitric acid

MULTI-ELEMENT STANDARDS FOR ICP

19 ELEMENTS IN 2-5% HNO_3 PACK SIZE:100ml

Product No	Elements	ppm
ICP19A10	Al (Aluminium)	100
	Ba (Barium)	5
	B (Beryllium)	1
	Bi (Bismuth)	200
	B (Boron)	15
	Cd (Cadmium)	20
	Cr (Chromium)	25
	Co (Cobalt)	20
	Cu (Copper)	30
	Ga (Gallium)	150
	In (Indium)	200
	Fe (Iron)	15
	Pb (Lead)	200
	Mn (Manganese)	5
	Ni (Nickel)	50
	Ag (Silver)	50
	Sr (Strontium)	1
	Tl (Thallium)	40
	Zn (Zinc)	20

3 Elements in 2-5% HNO_3 PACK SIZE:100ml

Product No	Elements	ppm
ICP3A2	Li (Lithium)	250
	K (Potassium)	10,000
	Na (Sodium)	1,000

4 Elements in 2-5% HNO_3 PACK SIZE:100ml

Product No	Elements	ppm
ICP4A2	Ba (Barium)	1,000
	Ca (Calcium)	1,000
	Mg (Magnesium)	1,000
	Sr (Strontium)	1,000

All of the above multi-element mixtures can be used either as standards or controls.

1 µg/ml = 1 mg/l = 1ppm = 1,000ppb

MULTI-ELEMENT STANDARDS FOR ICP

23 ELEMENTS IN 2-5% HNO_3 & 0.2% HF
PACK SIZE:100ml

Product No	Elements	ppm
ICP23A20	Sb (Antimony)	100
	As (Arsenic)	100
	Be (Beryllium)	100
	Cd (Cadmium)	100
	Ca (Calcium)	100
	Cr (Chromium)	100
	Co (Cobalt)	100
	Cu (Copper)	100
	Fe (Iron)	100
	Pb (Lead)	100
	Li (Lithium)	100
	Mg (Magnesium)	100
	Mn (Manganese)	100
	Mo (Molybdenum)	100
	Ni (Nickel)	100
	P (Phosphorus)	100
	Se (Selenium)	100
	Sr (Strontium)	100
	Tl (Thallium)	100
	Sn (Tin)	100
	Ti (Titanium)	100
	V (Vanadium)	100
	Zn (Zinc)	100

7 ELEMENTS IN 2-5% HNO_3 & 0.2% HF
PACK SIZE:100ml

Product No	Elements	ppm
ICP7A20	Al (Aluminium)	100
	Ba (Barium)	100
	B (Boron)	100
	K (Potassium)	1,000
	Si (Silicon)	500
	Ag (Silver)	50
	Na (Sodium)	100

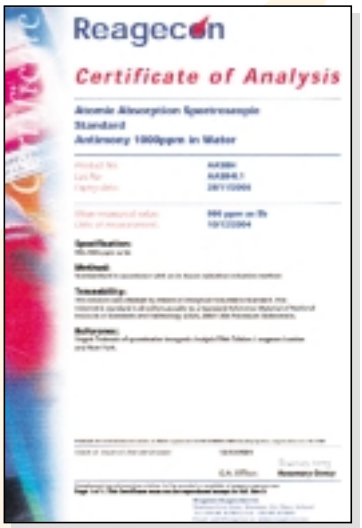
7 ELEMENTS IN 2-5% HNO_3 & 0.2% HF
PACK SIZE:100ml

Product No	Elements	ppm
ICP19A10	Al (Aluminium)	100
	Ba (Barium)	100
	Cd (Cadmium)	100
	Ca (Calcium)	100
	Cr (Chromium)	100
	Co (Cobalt)	100
	Cu (Copper)	100
	Fe (Iron)	100
	Pb (Lead)	100
	Mg (Magnesium)	100
	Mn (Manganese)	100
	Ni (Nickel)	100
	Na (Sodium)	100
	Ti (Titanium)	100
	Zn (Zinc)	100

ATOMIC ABSORPTION STANDARDS

The range of aqueous AA Standards available from Reagecon are listed below. These include standards for the measurement of all the most common alkali and transition metals. Pack size is 500ml





Product No.	Description	Concentration	Matrix	Pack Size
AAALH	ALUMINIUM	1000ppm	0.5M HNO_3	500ml
AAALM		10000ppm	1M HNO_3	500ml
AASbH	ANTIMONY	1000ppm	H_2O	500ml
AASbM		10000ppm	H_2O	500ml
AAAsH	ARSENIC (III)	1000ppm	1M HCl	500ml
AAAsM		10000ppm	1M HCl	500ml
AAAsVH	ARSENIC (V)	1000ppm	1M HNO_3	500ml
AAAsVM		10000ppm	1M HNO_3	500ml
AABaH	BARIUM	1000ppm	0.5M HNO_3	500ml
AABaM		10000ppm	1M HNO_3	500ml
AABeH	BERYLLIUM	1000ppm	1M HCl	500ml
AABeM		10000ppm	1M HCl	500ml
AABiH	BISMUTH	1000ppm	0.5M HNO_3	500ml
AABiM		10000ppm	1M HNO_3	500ml
AAB-H	BORON	1000ppm	H_2O	500ml
AAB-M		10000ppm	H_2O	500ml
AACdH	CADMIUM	1000ppm	0.5M HNO_3	500ml
AACdM		10000ppm	1M HNO_3	500ml
AACaH	CALCIUM	1000ppm	0.5M HNO_3	500ml
AACaM		10000ppm	1M HNO_3	500ml
AACsH	CESIUM	1000ppm	1M HNO_3	500ml
AACsM		10000ppm	1M HNO_3	500ml
AACrH	CHROMIUM	1000ppm	0.5M HNO_3	500ml
AACrM		10000ppm	1M HNO_3	500ml
AACoH	COBALT	1000ppm	0.5M HNO_3	500ml
AACoM		10000ppm	1M HNO_3	500ml
AACuH	COPPER	1000ppm	0.5M HNO_3	500ml
AACuM		10000ppm	1M HNO_3	500ml
AAGdH	GADOLINIUM	1000ppm	1M HCl	500ml
AAGdM		10000ppm	1M HCl	500ml
AAGaH	GALLIUM	1000ppm	1M HCl	500ml
AAGaM		10000ppm	1M HCl	500ml
AAAuH	GOLD	1000ppm	2M HCl	500ml
AAAuM		10000ppm	2M HCl	500ml
AAInH	INDIUM	1000ppm	1M HNO_3	500ml
AAInM		10000ppm	1M HNO_3	500ml

ATOMIC ABSORBTION STANDARDS (CONTINUED)

Product No.	Description	Concentration	Matrix	Pack Size
AAIrH	IRIDIUM	1000ppm	10% HCl	500ml
AAIrM		10000ppm	10% HCL	500ml
AAFeH	IRON	1000ppm	0.5M HNO3	500ml
AAFeM		10000ppm	1M HNO3	500ml
AALaH	LANTHANUM	1000ppm	1M HNO3	500ml
AALaM		10000ppm	1M HNO3	500ml
AAPbH	LEAD	1000ppm	0.5M HNO3	500ml
AAPbM		10000ppm	1M HNO3	500ml
AALiH	LITHIUM	1000ppm	0.5M HNO3	500ml
AALiM		10000ppm	1M HNO3	500ml
AAMgH	MAGNESIUM	1000ppm	0.5M HNO3	500ml
AAMgM		10000ppm	1M HNO3	500ml
AAMnH	MANGANESE	1000ppm	1M HCl	500ml
AAMnM		10000ppm	1M HCl	500ml
AAHgH	MERCURY	1000ppm	0.5M HNO3	500ml
AAHgM		10000ppm	1M HNO3	500ml
AAMoH	MOLYBDENUM	1000ppm	H2O	500ml
AAMoM		10000ppm	H2O	500ml
AANiH	NICKEL	1000ppm	0.5M HNO3	500ml
AANiM		10000ppm	1M HNO3	500ml
AAPdH	PALLADIUM	1000ppm	1M HCl	500ml
AAPdM		10000ppm	1M HCl	500ml
AAP-H	PHOSPHORUS	1000ppm	H2O	500ml
AAP-M		10000ppm	H2O	500ml
AAPtH	PLATINUM	1000ppm	1M HCl	500ml
AAPtM		10000ppm	1M HCl	500ml
AAK-H	POTASSIUM	1000ppm	0.5M HNO3	500ml
AAK-M		10000ppm	1M HNO3	500ml
AARhH	RHODIUM	1000ppm	1M HNO3	500ml
AARhH		10000ppm	1M HNO3	500ml
AASeH	SELENIUM	1000ppm	0.5M HNO3	500ml
AASeM		10000ppm	1M HNO3	500ml
AASiH	SILICON	1000ppm	H2O	500ml
AASiM		10000ppm	H2O	500ml
AAAgH	SILVER	1000ppm	0.5M HNO3	500ml
AAAgH		10000ppm	1M HNO3	500ml
AANaH	SODIUM	1000ppm	0.5M HNO3	500ml
AANaM		10000ppm	1M HNO3	500ml
AASrH	STRONTIUM	1000ppm	0.5M HNO3	500ml
AASrM		10000ppm	1M HNO3	500ml
AAS-H	SULPHUR	1000ppm	H2O	500ml
AAS-M		10000ppm	H2O	500ml
AATeH	TELLURIUM	1000ppm	1M HCl	500ml
AATeM		10000ppm	1M HCl	500ml
AATlH	THALLIUM	1000ppm	1M HNO3	500ml
AATlM		10000ppm	1M HNO3	500ml
AATtH	THORIUM	1000ppm	1M HNO3	500ml
AATtM		10000ppm	1M HNO3	500ml
AASnH	TIN	1000ppm	1M HCl	500ml
AASnM		10000ppm	1M HCl	500ml

ATOMIC ABSORPTION STANDARDS (CONTINUED)

Product No.	Description	Concentration	Matrix	Pack Size
AATiH	TITANIUM	1000ppm	H_2O	500ml
AATiM		10000ppm	H_2O	500ml
AAW-H	TUNGSTEN	1000ppm	H_2O	500ml
AAW-M		10000ppm	H2O	500ml
AAU-H	URANIUM	1000ppm	1M HNO_3	500ml
AAU-M		10000ppm	1M HNO_3	500ml
AAV-H	VANADIUM	1000ppm	0.5M HNO_3	500ml
AAV-M		10000ppm	1M HNO_3	500ml
AAZnH	ZINC	1000ppm	0.5M HNO_3	500ml
AAZnM		10000ppm	1M HNO_3	500ml
AAZrH	ZIRCONIUM	1000ppm	1M HCl	500ml
AAXrM		10000ppm	1M HCl	500ml

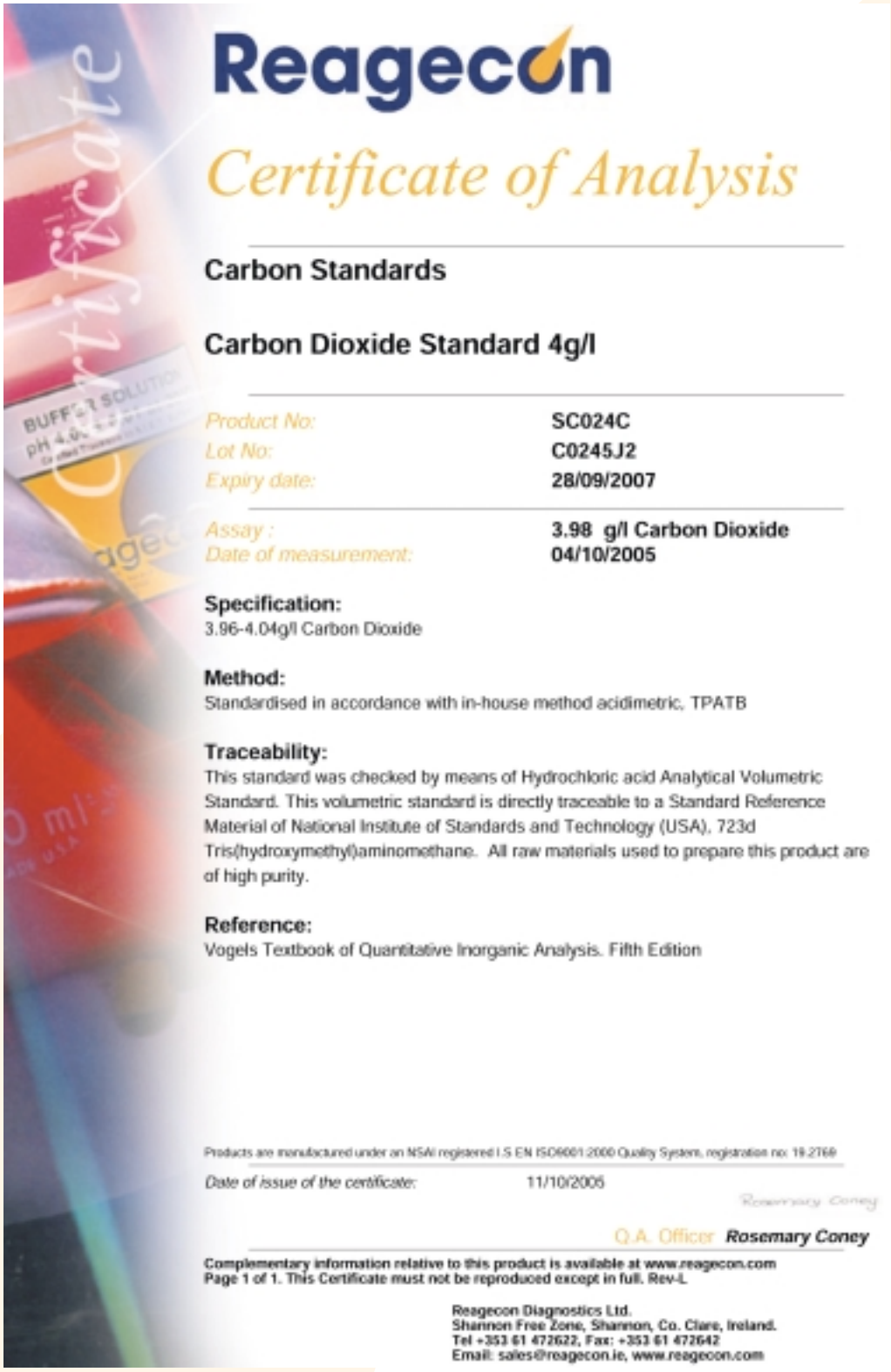
MATRIX MODIFIER SOLUTIONS FOR GRAPHITE FURNACE AA

Product No.	Description	Starting Material	Pack Size
MMS101	Ammonium dihydrogen phosphate sol. 40% in H_2O	$NH_4 H_2 PO_2$	100ml
MMS105			500ml
MMS201	Ammonium nitrate sol, 2% in H2O	$NH_4 NO_3$	100ml
MMS205			500ml
MMS301	Calcium nitrate sol., 2% Ca in 5% in HNO_3	$Ca(NO_3)_2 4H_2O$	100ml
MMS305			500ml
MMS401	Lanthanum chloride sol., 5% La in 5% HCl	LaCl	100ml
MMS405			500ml
MMS501	Lanthanum nitrate sol., 5% La in 5% HNO_3	$La_2 O_3$	100ml
MMS505			500ml
MMS601	Magnesium nitrate sol, 2% Mg in 5% HNO_3	Mg	100ml
MMS605			500ml
MMS701	Nickel nitrate solution, 5% Ni in 5% HNO_3	Ni	100ml
MMS705			500ml
MMS801	Palladium nitrate solution, 0.2% Pd in 5% HNO_3	$Pd(NO_3)_2$	100ml
MMS805			500ml
MMS901	Palladium nitrate solution, 1.0% Pd in 5% HNO_3	$Pd(NO_3)_2$	100ml
MMS905			500ml
MMS1001	Palladium nitrate solution, 2.0% Pd in 10% HNO_3	$Pd(NO_3)_2$	100ml
MMS1005			500ml

RELEASING AGENTS FOR ATOMIC ABSORPTION

Releasing agents eliminate the chemical interference from ligands that complex with the analyte thereby altering the free atom population in the flame.

Product No.	Description	Pack Size
RA1N05	1.0% Lanthanum in HNO_3	500ml
RA1C05	1.0% Lanthanum in HCl	500ml
RA5NO5	5.0% Lanthanum in HNO_3	500ml
RA5C05	5.0% Lanthanum in HCl	500ml



Reagecon

Certificate of Analysis

Carbon Standards

Carbon Dioxide Standard 4g/l

Product No:	**SC024C**
Lot No:	**C0245J2**
Expiry date:	**28/09/2007**
Assay :	**3.98 g/l Carbon Dioxide**
Date of measurement:	**04/10/2005**

Specification:
3.96-4.04g/l Carbon Dioxide

Method:
Standardised in accordance with in-house method acidimetric, TPATB

Traceability:
This standard was checked by means of Hydrochloric acid Analytical Volumetric Standard. This volumetric standard is directly traceable to a Standard Reference Material of National Institute of Standards and Technology (USA), 723d Tris(hydroxymethyl)aminomethane. All raw materials used to prepare this product are of high purity.

Reference:
Vogels Textbook of Quantitative Inorganic Analysis. Fifth Edition

Products are manufactured under an NSAI registered I.S EN ISO9001:2000 Quality System, registration no: 19.2769

Date of issue of the certificate: 11/10/2005

Rosemary Coney

Q.A. Officer ***Rosemary Coney***

Complementary information relative to this product is available at www.reagecon.com
Page 1 of 1. This Certificate must not be reproduced except in full. Rev-L

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Email: sales@reagecon.ie, www.reagecon.com

CARBON STANDARDS - TOTAL ORGANIC & INORGANIC

All our carbon standards are packed in twin neck bottles to prevent contamination, evaporation or interference to the standard.

TOTAL ORGANIC CARBON STANDARDS

Product No	Concentration ppm	Pack Size
TOC5	5	500ml
TOC50	50	500ml
TOC500	500	500ml
TOC1M	1000	500ml
TOC2M	2000	500ml

MIXED STANDARDS

(Equal concentrations of organic & inorganic carbon)

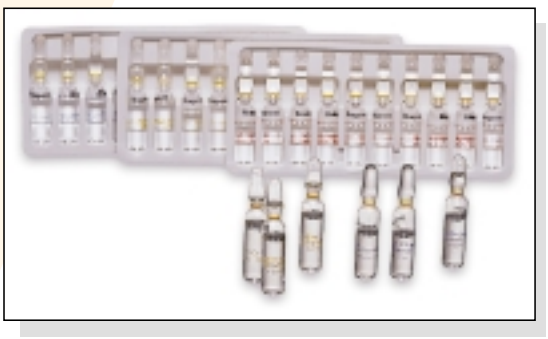
Product No	Concentration ppm	Pack Size
TOIC10	10	500ml
TOIC100	100	500ml
TOIC1M	1000	500ml
TOIC2M	2000	500ml
TOIC4M	4000	500ml

TOTAL INORGANIC TOTAL STANDARDS

Product No	Concentration ppm	Pack Size
TIC5	5	500ml
TIC50	50	500ml
TIC500	500	500ml
TIC1M	1000	500ml
TIC2M	2000	500ml

CARBON DIOXIDE STANDARDS AND REAGENTS

Reagents and Standards for M965D Carbon Dioxide Analyser; soft drink and brewery applications.



Product No.	Description	Pack Size
RR021	CO_2 Release Agent	6 x 200ml
RR0207	CO_2 Release Agent	1L
SC021C	CO_2 Standard 1g/l (2ml ampoules)	100 amps
SC022C	CO_2 Standard 2g/l (2ml ampoules)	100 amps
SC023C	CO_2 Standard 3g/l (2ml ampoules)	100 amps
SC024C	CO_2 Standard 4g/l (2ml ampoules)	100 amps
SC026C	CO_2 Standard 6g/l (2ml ampoules)	100 amps

STANDARDS AND REAGENT FOR CHLORIDE ANALYSERS

Product No.	Description	Pack Size
CL100M01	Chloride standard solution 100mmol/l	100ml
CL20001	Chloride standard solution 200ppm Cl	100ml
CAB05	Combined Acid Buffer	500ml

HAZEN COLOUR STANDARDS

Product No.	Description	Pack Size
HAZ0	0 Hazen units	1L
HAZ10	10 Hazen units	1L
HAZ25	25 Hazen units	1L
HAZ40	40 Hazen units	1L
HAZ50	50 Hazen units	1L
HAZ80	80 Hazen units	1L
HAZ100	100 Hazen units	1L
HAZ250	250 Hazen units	1L
HAZ500	500 Hazen units	1L

REDOX STANDARDS

All values quoted are potentials of platinum electrode v Ag/AgCl Reference (3M KCl).



Product No.	Description	Pack Size
RS124	Redox standard 124mV @ 25° C	500ml
RS200	Redox standard 200mV @ 25° C	500ml
RS250	Redox standard 250mV @ 25° C	500ml
RS300	Redox standard 300mV @ 25° C	500ml
RS358	Redox standard 358mV @ 25° C	500ml
RS465	Redox standard 465mV @ 25° C	500ml
RS600	Redox standard 600mV @ 25° C	500ml
RS650	Redox standard 650mV @ 25° C	500ml

Reagecon supply Redox (ORP) electrodes for both laboratory and industrial applications, including swimming pool monitoring. Sensors can be either in platinum or gold, in pin, ring or disk format.

ION SELECTIVE ELECTRODE STANDARDS

Product No.	Description	Pack Size
ISENH5	Ammonia 1,000ppm as N	500ml
ISENH45	Ammonium 1,000ppm as NH_4	500ml
ISEBA5	Barium 1,000ppm	500ml
ISEBR5	Bromide 1,000ppm	500ml
ISECD5	Cadmium 1,000ppm	500ml
ISECO5	Carbon Dioxide 1,000ppm	500ml
ISECA5	Calcium 1,000ppm	500ml
ISECL5	Chloride 1,000ppm	500ml
ISECU5	Copper 1,000ppm	500ml
ISECN5	Cyanide 1,000ppm	500ml
ISEF5	Fluoride 1,000ppm	500ml
ISEI5	Iodide 1,000ppm	500ml
ISEPB5	Lead 1,000ppm	500ml
ISEN5	Nitrate 1,000ppm as NO_3	500ml
ISENO5	Nitrogen Oxide 1,000ppm as NO_2	500ml
ISEK5	Potassium 1,000ppm	500ml
ISEAG5	Silver 1,000ppm	500ml
ISENA5	Sodium 1,000ppm	500ml
ISES5	Sulphide 1,000ppm	500ml
ISESCO5	Sulphur Dioxide 1,000ppm	500ml
ISESC5	Thiocyanate 1,000ppm	500ml

ION STRENGTH ADJUSTER SOLUTIONS

Product No.	Description	Pack Size
ISANH5	Ammonia ISA 10M NaOH	500ml
ISANH45	Ammonium ISA 4M LiCl	500ml
ISABA5	Barium ISA 4M LiCl	500ml
ISABR5	Bromide ISA 5M $NaNO_3$	500ml
ISACD5	Cadmium ISA 5M $NaNO_3$	500ml
ISACA5	Calcium ISA 4M KCl	500ml
ISACL5	Chloride ISA 5M $NaNO_3$	500ml
ISACU5	Copper ISA 5M $NaNO_3$	500ml
ISACN5	Cyanide ISA 10M NaOH	500ml
TISAF5	Fluoride $TISAB_3$	500ml
ISAI5	Iodide ISA 5M $NaNO_3$	500ml
ISAPB5	Lead ISA 2.5M $NaNO_3$	500ml
ISAN5	Nitrate ISA 2M $(NH_4)2SO_4$	500ml
ISAK5	Potassium ISA 5M NaCl	500ml
ISAAG5	Silver ISA 5M $NaNO_3$	500ml
ISANA5	Sodium ISA NH_4 Cl	500ml
ISAS5	Sulphide ISA 10M NaOH	500ml
ISASO5	Sulphur Dioxide ISA 2M H_2SO_4	500ml
ISASC5	Thiocyanate ISA 5M $NaNO_3$	500ml

Contact your distributor for details of our Ion Selective Electrodes - both mono (single sensing) and combination.

ION CHROMATOGRAPHY STANDARDS

With the Reagecon range of Ion Chromatography standards you can have confidence in the reliability of your ion chromatography analysis. All are prepared from High Purity Starting materials and are traceable to N.I.S.T, where possible. If you require Multi-Ion standards please contact us with your requirements.

ANION STANDARDS (ALL IN H_20 MATRIX)

Product No.	Description	Ion	Concentration	Pack Size
ICAS35	Acetate	CH_3COO^-	1mg/ml (1,000ppm)	100ml
ICAT35			0.2mg/ml (200ppm)	100ml
ICAS01	Bromide	Br^-	1mg/ml (1,000ppm)	100ml
ICAT01			0.2mg/ml (200ppm)	100ml
ICAS02	Chloride	Cl^-	1mg/ml (1,000ppm)	100ml
ICAT02			0.2mg/ml (200ppm)	100ml
ICAS29	Chromate	CrO_4^{2-}	1mg/ml (1,000ppm)	100ml
ICAT29			0.2mg/ml (200ppm)	100ml
ICAS03	Fluoride	F^-	1mg/ml (1,000ppm)	100ml
ICAT03			0.2mg/ml (200ppm)	100ml
ICAS34	Formate	$HCOO^-$	1mg/ml (1,000ppm)	100ml
ICAT34			0.2mg/ml (200ppm)	100ml
ICAS40	Iodide	I^-	1mg/ml (1,000ppm)	100ml
ICAT40			0.2mg/ml (200ppm)	100ml
ICAS04	Nitrate	NO_3^-	1mg/ml (1,000ppm)	100ml
ICAT04			0.2mg/ml (200ppm)	100ml
ICAS11	Nitrite	NO_2^-	1mg/ml (1,000ppm)	100ml
ICAS13	Oxalate	$(COO)_2^{2-}$	1mg/ml (1,000ppm)	100ml
ICAT13			0.2mg/ml (200ppm)	100ml
ICAS05	Phosphate	PO_4^{3-}	1mg/ml (1,000ppm)	100ml
ICAT05			0.2mg/ml (200ppm)	100ml
ICAS12	Silica	SiO_2	1mg/ml (1,000ppm)	100ml
ICAT12			0.2mg/ml (200ppm)	100ml
ICAS06	Sulphate	SO_4^{2-}	1mg/ml (1,000ppm)	100ml
ICAT06			0.2mg/ml (200ppm)	100ml
ICAS36	Tartrate	$(CHOH)_2(COO)_2^{2-}$	1mg/ml (1,000ppm)	100ml
ICAT36			0.2mg/ml (200ppm)	100ml

CATION STANDARDS (ALL IN H_20 MATRIX)

Product No.	Description	Ion	Concentration	Pack Size
ICCS06	Aluminium	Al^{3+}	1mg/ml (1000ppm)	100ml
ICCT06			0.2mg/ml (200ppm)	100ml
ICCS01	Ammonium	NH^{4+}	1mg/ml (1000ppm)	100ml
ICCT01			0.2mg/ml (200ppm)	100ml
ICCS44	Barium	Ba^{2+}	1mg/ml (1000ppm)	100ml
ICCT44			0.2mg/m(l 200ppm)	100ml
ICCS08	Calcium	Ca^{2+}	1mg/ml (1000ppm)	100ml
ICCT08			0.2mg/ml (200ppm)	100ml
ICCS91	Cesium	Cs^{+}	1mg/ml (1000ppm)	100ml
ICCT91			0.2mg/ml (200ppm)	100ml
ICCS12	Iron	Fe^{2+}	1mg/ml (1000ppm)	100ml
ICCT12			0.2mg/ml (200ppm)	100ml
ICCS02	Lithium	Li^{+}	1mg/ml (1000ppm)	100ml
ICCT02			0.2mg/ml (200ppm)	100ml
ICCS07	Magnesium	Mg^{2+}	1mg/ml (1000ppm)	100ml
ICCT07			0.2mg/ml (200ppm)	100ml
ICCS11	Manganese	Mn^{2+}	1mg/ml (1000ppm)	100ml
ICCT11			0.2mg/ml (200ppm)	100ml
ICCS03	Potassium	K^{+}	1mg/ml (1000ppm)	100ml
ICCT03			0.2mg/ml (200ppm)	100ml
ICCS92	Rubidium	Rb^{+}	1mg/ml (1000ppm)	100ml
ICCT92			0.2mg/ml (200ppm)	100ml
ICCS04	Sodium	Na^{+}	1mg/ml (1000ppm)	100ml
ICCT04			0.2mg/ml (200ppm)	100ml
ICCS43	Strontium	Sr^{2+}	1mg/ml (1000ppm)	100ml
ICCT43			0.2mg/ml (200ppm)	100ml

MIXED STANDARDS FOR WATER ANALYSIS

Product No.	Description - Anion	Pack Size
ICAS501	Mixed Anion Standard - contains Fluoride 100ppm, Chloride 100ppm, Nitrate 200ppm,Phosphate 200ppm and Sulphate 200ppm	100ml
ICA-DX-711	Combined Seven Anion Standard-I: contains Fluoride 20mg/l, Chloride 30mg/l, Nitrite 100mg/l, Bromide 100mg/l, Nitrate 100mg/l, Phosphate 150mg/l and Sulfate 150mg/l	100ml
ICA-DX-721	Combined Seven Anion Standard-II: contains Fluoride 20mg/l, Chloride 100mg/l, Nitrite 100mg/l, Bromide 100mg/l, Nitrate 100ml/l, Phosphate 200mg/l and Sulphate 100mg/l	100ml
ICA-DX-51	Combined Five Anion Standard - contains Fluoride 20mg/l, Chloride 30mg/l, Nitrate 100mg/l, Phosphate 150mg/l and Sulfate 150mg/l	100ml

MIXED STANDARDS FOR WATER ANALYSIS CONTINUED

Product No.	Description - Anion	Pack Size
ICCS401	Mixed Cation Standard - contains Sodium 500ppm, Calcium 500ppm, Magnesium 200ppm and Potassium 200ppm	100ml
ICC-DX-611	Combined Six Cation Standard-I: contains Lithium 50mg/l, Sodium 200mg/l, Ammonium 400mg/l, Potassium 200mg/l, Magnesium 200mg/l and Calcium 1000mg/l	100ml
ICC-DX-621	Combined Six Cation Standard-II: contains Lithium 50mg/l, Sodium 200mg/l, Ammonium 250mg/l, Potassium 500mg/l, Magnesium 250mg/l and Calcium 500mg/l	100ml

Various eluents are available on request. Please contact sales@reagecon.ie for further information

MILK TESTING REAGENTS



FREEZING POINT CALIBRATION STANDARDS FOR CRYOSCOPE

Product No.	Cryoscope Value	Pack Size
MTR01025	000 (0.000˚C)	250ml
MTR02025	422 (-0.408˚C)	250ml
MTR03025	530 (-0.512˚C)	250ml
MTR03525	577 (-0.577˚C)	250ml
MTR04025	621 (-0.600˚C)	250ml
CRYBL	Cryoscope Bath Liquid	500ml
HTF250	Heat Transfer Fluid	250ml

PHOSPHATASE TEST

Product No.	Description	Pack Size
NPD03	4-Nitrophenyl Di-Sodium Phosphate	12x0.15g
NPD04	Carbonate Bi-Carbonate Buffer (Aschafenburg and Mullen Phosphatase test buffer)	12x2.5g

GERBER TEST

Product No.	Description	Pack Size
SUFMT25	Sulphuric Acid FMT d. 1.815-1.825	25L
SUFMTJ	Sulphuric Acid FMT d. 1.815-1.825	2.5L

INDICATORS

Product No.	Description	Pack Size
MTR05025	Methyl Orange Indicator Alcoholic Solution 0.1%	250ml
MOS05	Screened Methyl Orange Alcoholic Solution 0.1%	500ml
MTR06025	Methyl Red Alcoholic Solution 0.1%	250ml
IPTI0W	Phenolphthalein Alcoholic Sol. 1.0%	2.5L
IPT05W	Phenolphthalein Alcoholic Sol. 0.5%	2.5L
IPT05F	Phenolphthalein Alcoholic Sol. 0.5%	1L
PCS5	Potassium Chromate Sol. 5% w/v	500ml
TB04F	Thymol Blue Alcoholic Sol. 0.04%	500ml
FEA25	Iron Alum Solution	250ml
PFS1	1,10 - Phenanthroline Ferrous Sulphate Complex Solution (Ferroin Indicator)	100ml

FLAME PHOTOMETER STANDARDS

INDUSTRIAL STANDARDS

Product No.	Description	Concentration	Pack Size
FIBA1	Barium	1,000ppm	500ml
FIBA3	Barium	3,000ppm	500ml
FICA1	Calcium	1,000ppm	500ml
FICA2	Calcium	2,000ppm	500ml
FICS1	Cesium	1,000ppm	500ml
FILI1	Lithium	1,000ppm	500ml
FINA1	Sodium	1,000ppm	500ml
FIK1	Potassium	1,000ppm	500ml
FISR1	Strontium	1,000ppm	500ml
FIRB1	Rubidium	1,000ppm	500ml

CLINICAL STANDARDS

Product No.	Description	Pack Size
FCNK3	Sodium 100/Potassium 100 mmol/l	500ml
FCNK4	Sodium 120/Potassium 2 mmol/l	500ml
FCNK5	Sodium 140/Potassium 5 mmol/l	500ml
FCNK1	Sodium 160/Potassium 8 mmol/l	500ml
FCNK2	Sodium 160/Potassium 80 mmol/l	500ml
FCLI001	Lithium 1 mmol/l	500ml

SPECTROPHOTOMETRIC STANDARDS



- N.I.S.T. (National Institute of Standards & Technology) Traceable
- Easy to Use (Pour straight out of the bottle)
- Accurate (Guaranteed accuracy of ±5% Inter/Intra-Instrument Variance)
- Stable (Will not settle out of solution)
- Safe (Non carcinogenic materials used)
- Guaranteed for one year shelf life

Product No.	Optical Standard	Wavelength 450nm	Wavelength 400nm	Wavelength 350nm	Wavelength 300nm	Wavelength 250nm	Wavelength 224nm
OPS1	1.0	0.0058	0.0084	0.0142	0.0259	0.0553	0.0954
OPS2	2.0	0.0120	0.0177	0.0279	0.0512	0.1108	0.2023
OPS3	3.0	0.0176	0.0260	0.0413	0.0756	0.1608	0.2942
OPS4	4.0	0.0246	0.0355	0.0563	0.1024	0.2214	0.4051
OPS5	5.0	0.0308	0.0446	0.0708	0.1273	0.2710	0.4947
OPS6	6.0	0.0368	0.0539	0.0841	0.1522	0.3267	0.5965
OPS7	7.0	0.0429	0.0622	0.0972	0.1758	0.3775	0.6842
OPS8	8.0	0.0490	0.0717	0.1120	0.2015	0.4333	0.7928
OPS20	20.0	0.1279	0.1878	0.2866	0.5066	1.0794	1.8559
OPS30	30.0	0.1929	0.2811	0.4369	0.7797	1.6870	2.6225

- Instruments used to acquire data are N.I.S.T. calibrated
- Our background solution must be used in conjunction with our photometric standard
- Certificates of Analysis provided with standards ±1% from lot to lot
- All Standards are provided in 125ml plastic bottles

Product No.	Optical Photometric Standard	Pack Size
OPSB	BACKGROUND SOLUTION	125ml

CHEMICAL OXYGEN DEMAND - COD REAGENTS

Reagecon offer reagents for the two accepted methods for measuring COD at concentrations of less than 400mg/l. Where the concentration is greater than 400mg/l, dilute the sample.

Product No.	Description	Pack Size
WTR50W	COD Reagent (1977 method)	2.5L
WTR49W	Modified COD Reagent (1986 method) Mercury free	2.5L

ADDITIONAL REAGENTS ARE AS FOLLOWS:

Product No.	Description	Pack Size
CODMS	20% w/v Mercury (II) Sulphate in 10% w/v Sulphuric Acid	500ml
KC2002F	0.0208M (0.125N) Potassium Dichromate	1L
AGN01001	Silver Nitrate Solution 1000g/l	100ml
AGS1W	1% w/v Silver Sulphate in Sulphuric Acid	2.5L
COD200	COD Calibration Standard 200mg/l Solution	500ml
COD600	COD Calibration Standard 600mg/l Solution	500ml
COD1300	COD Calibration Standard 1300mg/l Solution	500ml
PFS1	Ferroin Indicator	100ml

METHODOLOGY

Methodology as per the Department of the Environment (U.K.) "Chemical Oxygen Demand (Dichromate Value) of Polluted and Waste Waters" published in 1977 and revised in 1986.

1977 METHOD

1. Pipette 10ml of sample (or diluted sample) into a 150ml boiling flask containing clean washed anti- bumping granules.
2. Add, by pipette, 1ml of 20% Mercury (II) sulphate (CODMS), mix well.
3. Add 18.5ml of COD reagent (WTR5OW), mix well.
4. Fit the condenser and boil gently, under reflux, for 2 hours + 10 minutes.
5. Cool and add 25ml of distilled water via the condenser.
6. Disconnect the flask, cool to 25°C under running water, add 1-2 drops of Ferroin indicator (PFS1) and titrate excess Potassium dichromate with the standardised Ammonium Iron (II) sulphate (AF20251). End point is indicated by a change from blue/green to orange. Carry out a blank determination on all reagents replacing the sample with 10ml of distilled water.

1986 METHOD

As per the 1977 method but with the following changes:

Step 2. Add, by pipette, 0.6ml of 1,000g/l Silver nitrate solution (AGN01001), 0.4ml of distilled water, mix well and leave to stand for 2 minutes.

Step 3. Add 18.5ml of modified COD reagent (WTR49W)

COD Reagent Vials

As well as being compatible with the PC Compact COD Vario, Reagecon's COD Reagent Vials can also be used in conjunction with the Aqualytic PC Spectro and all Hach TM spectrophotometers. This compatibility is proven in the Reagecon Technical Publication, "A comparative study of the performance of Reagecon COD vials and Hach TM COD vials" – available in the Technical section of Reagecon's website – www.reagecon.com. Reagecon supply COD Reagent Vials and also offer a collection and disposal service for used vials that complies with all relevant dangerous goods disposal and environmental regulations.



COD REAGENT VIALS - ORDERING INFORMATION

Cat No.	Description	Pack Size
470720	COD Reagent Vials Measuring Range 0-150mg/l	25 vials per box
470720R	COD Reagent Vials Measuring Range 0-150mg/l, price includes compliant disposal of vials	25 vials per box
470721	COD Reagent Vials Measuring Ranges 0-1500mg/l	25 vials per box
470721R	COD Reagent Vials Measuring Range 0-1500mg/l, price includes compliant disposal of vials	25 vials per box
470722	COD Reagent Vials Measuring Range 0-15000mg/l	25 vials per box
470722R	COD Reagent Vials Measuring Range 0-15000mg/l, price includes compliant disposal of vials	25 vials per box

COD Standards

Reagecon manufacture a comprehensive range of COD Standards. These standards are ideal for use as Control Standards to verify that correct analysis for COD has taken place. Achieving an acceptable result for the Control Standard will improve confidence in sample readings for this important environmental parameter.

Cat No.	Description	Pack Size
COD10	COD Calibration Standard 10mg/l Solution	500ml
COD50	COD Calibration Standard 50mg/l Solution	500ml
COD100	COD Calibration Standard 100mg/l Solution	500ml
COD200	COD Calibration Standard 200mg/l Solution	500ml
COD500	COD Calibration Standard 500mg/l Solution	500ml
COD600	COD Calibration Standard 600mg/l Solution	500ml
COD1000	COD Calibration Standard 1000mg/l Solution	500ml
COD1300	COD Calibration Standard 1300mg/l Solution	500ml
COD1500	COD Calibration Standard 1500mg/l Solution	500ml
COD5000	COD Calibration Standard 5000mg/l Solution	500ml
COD10M	COD Calibration Standard 10000mg/l Solution	500ml

CARE AND MAINTENANCE KIT

REAGECARE developed by Reagecon

This is a unique complete Kit designed to help calibrate, clean and extend the useful life of your pH electrodes.

Contents include:



- pH buffers in twin neck botles - 1 x 500ml each of pH 4.00/7.00/10.00 @ 20˚C.
- Electrode Storage Solution - 1 x 500ml
- Electrode Cleaning Solution - 1 x 100ml each of Biological, Organic and Inorganic.
- Filling Solution 1 x 100ml each of 3M KCl/AgCl and 4M KCl.
- Pipettes (2).
- Regeneration Solution - 1 x 100ml.
- Instruction card and GLP Log Book.

Product No.	Description	Pack Size
RCMK	REAGECARE pH Electrode Care & Maintenance Kit	Kit

FILLING SOLUTIONS

Product No.	Description	Pack Size
EFS3	3mol/litre Potassium Chloride (KCl), free from Silver ion	100ml
EFS35	3mol/litre Potassium Chloride (KCl), free from Silver ion	500ml
EFS4	4mol/litre Potassium Chloride (KCl), free from Silver ion	100ml
EFS381	3.8mol/litre Potassium Chloride (KCl), free from Silver ion	100ml
LKCL	Saturated Potassium (KCl), free from Silver ion	100ml
EFS3AC	3mol/litre Potassium Chloride (KCl), saturated with AgCl	100ml
EFS3AC5	3mol/litre Potassium Chloride (KCl), saturated with AgCl	500ml
EFS4AC	4mol/litre Potassium Chloride (KCl), saturated with AgCl	100ml
EFSPS	Saturated Potassium Sulphate (K_2SO_4)	100ml
EFS2AS	Double junction bridge solution: 2 mol/litre Ammonium Sulphate $(NH4)_2SO_4$	100ml
EFS01AS	Double junction bridge solution:0.1 mol/litre Ammonium Sulphate $(NH4)_2SO_4$	100ml
EFSKNO	Double junction bridge solution: 10% w/v Potassium Nitrate	100ml
EFSLICL	Non-aqueous filling solution: 1mol/litre Lithium Chloride (LiCl), dissolved in Isopropanol	100ml
EFSLIET	Non-aqueous filling solution: 1mol/litre Lithium Chloride (LiCl), dissolved in ethanol	100ml
EFSLIGA	Non-aqueous filling solution: 1mol/litre Lithium Chloride (LiCl), dissolved in glacial acetic acid	100ml
EFSDO	Dissolved Oxygen Electrolyte	100ml

ELECTRODE CARE AND MAINTENANCE CONTINUED

CLEANING SOLUTIONS

Product No.	Description	Pack Size
ECS	Electrode cleaning solution (Pepsin/hydrochloric acid) for removal of proteins	500ml
IECS5	Inorganic electrode cleaning soution (Thiourea/hydrochloric acid); for removal of sulphide	500ml
OECS	Organic Electrode Cleaning Solution	500ml
ERS	Electrode Regeneration Solution	100ml

STORAGE SOLUTIONS

Product No.	Description	Pack Size
ESS5	pH Electrode Storage Solution	500ml
ESS01	pH Electrode Storage Solution	1L

KJELDAHL REAGENTS

Product No.	Description	Pack Size
ST840	40% w/v Sodium Hydroxide/8% Sodium Thiosulphate	25L
ST841		5L
WTR045	Barium Chloride Solution 10% w/v	5L
BOA25	2% w/v Boric Acid Solution without indicator	5L
BOA4	4% w/v Boric Acid Solution without indicator	5L
KJR015	4% w/v Boric Acid Solution with indicator	5L
S30WW5	30% w/w (40% w/v) Sodium Hydroxide	5L
S30WWLN	30% w/w (40% w/v) Sodium Hydroxide Low in Nitrogen < 2mg/l	5L
KJTO1P	Copper Catalyst Tablets	500
KJTO2P	Mercury Catalyst Tablets	500
KJTO3P	Selenium Catalyst Tablets	500

Reagents are also available for Büchi, Velp and other Systems.

OTHER FEED ANALYSIS REAGENTS

Product No.	Description	Pack Size
S203135	Sodium Hydroxide (0.313N, 0.313M)	5L
SU201285	Sulphuric Acid (0.256N, 0.128M)	5L

GENERAL LABORATORY REAGENTS

Product No.	Description	Pack Size
HY045	Hyamine 1622 (0.04M) Solution*	5L
HY041		1L
HY0045	Hyamine 1622 (0.004M) Solution*	5L
HY0041		1L
SLS015	Sodium Lauryl (Dodecyl) Sulphate (0.1N)	5L
SLS011		1L
KF60	Potassium Fluoride 60% w/v	5L
SG25	Sodium Gluconate 25% w/v	5L
FS0101	Fehlings Solution No. 1	1L
FS0102	Fehlings Solution No. 2	1L
KR01	Kovac's Indole Reagent	100ml
NH10WW	Ammonia Solution (10% w/v NH_3)	1L
FBS10	Formal Buffered Saline	10L
FBS5	Formal Buffered Saline	5L
FBS1		1L
FPB25	Formaldehyde Phosphate Buffer	25L
FPB5		5L
FW5	10% Formal Water without Saline	5L
IP305	30% w/v Iso-Propyl Alcohol	5L

***As per B.S. 3762 (ISO 2271)**



INDICATOR SOLUTIONS

The following chemical indicators, with their appropriate colour changes and pH range, are available from Reagecon. Solutions of the same indicator in other concentrations are also available from Reagecon.



Product No.	Description	Pack Size
UN101	Universal Indicator Solution	100ml
UN105		500ml
FRIH	Full Range Indicator pH 1 to 14 (with colour card)	500ml
FRIW	Full Range Indicator pH 1 to 14 (with colour card)	2.5L

INDICATOR SOLUTIONS

Product No.	Description	Pack Size
EBB05	Erichrome Blue Black R	500ml
MRX05	Murexide	500ml
PCS5	Potassium Chromate, 5%	500ml
WHI05	Water Hardness Indicator	500ml
FEA25	Iron Alum (Volhard)	250ml
PFS1	Ferroin Indicator	100ml
1085103	Starch Indicator 1%	500ml
BRCG05	Bromocresol Green, 0.04%	500ml
1012602	Bromocresol Green - Methyl Red Mixed Indicator	100ml
1012701	Bromocresol Purple, 0.04%	100ml
BRBP05	Bromophenol Blue, 0.04%	500ml
BRTH05	Bromothymol Blue, 0.04%	500ml
CPR05	Chlorophenol Red, 0.04%	500ml
MCP05	m-Cresol Purple, 0.4%	500ml
1022901	Crystal Violet, 0.1% (Non-aqueous indicator)	100ml
M004F	Methyl Orange, 0.04%	500ml
1055102	Methyl Red, 0.02%	100ml
IPT05H	Phenolphthalein, 0.5%	500ml
1063601	Phenol Red, 0.02%	100ml
SO405	Sulfo Orange, 0.4%	500ml
1090701	Thymolphthalein, 0.05%	100ml

See also Ph. Eur. reagents (pages 16) and Milk Testing Reagents (page 48) for other indicator solutions.

WATER

Product No.	Description	Pack Size
H2025	Purified Water	25L
H2010		10L
H205		5L
H205AG	Water Analytical Grade	5L
H2025AG		25L
H20HPW	Water for HPLC	2.5L
DSW25	Artifical Seawater	25L
DSW5		5L

SYNTHETIC FRESH WATER STANDARDS - WATER HARDNESS AS $CaCO_3$

Product No.	Concentration	Pack Size
HSVS1	10-13ppm	1L
HSVS5		5L
HSS1	40-48ppm	1L
HSS5		5L
HSMH1	80-100ppm	1L
HSMH5		5L
HSH1	160-180ppm	1L
HSH5		5L

MACHEREY-NAGEL Test Strips - pH-Fix Papers

Recommended for pH measurement in weakly buffered or strongly alkaline solutions.

Macherey Nagel strips are easy to use and easy to read. In the field Technicians can test many samples in only a few minutes and make immediate evaluations on site. No measuring, setting up or chemical handling are necessary.

Technicians can easily conduct pre-test screening to detect the presence of materials that might interfere with lab testing.

As water quality testing becomes more important these test strips answer the need for fast reliable test results.

Reagecon offer 3 types of test strips pH-Fix, Pehanon® and Quantofix.

pH-fix indicator sticks are suitable for the rapid measurement of the pH of a water sample.



Advantages

Measurement of pH values is possible even in unbuffered solutions since the sticks can be left in the solution until the final reaction colour is obtained.

Test samples are not contaminated by the indicator dyes thus solutions can be used for further investigations.

The individual colour fields cannot run into each other which allows a more precise comparison of the colour scale.

Specially developed indicator dyes guarantee a sharp differentiation between the individual pH values and a clear and easy comparison with the colour scale.

Length and stability of the plastic strips protect fingers from contact with the test solution.



Cat No.	pH-Fix Range	Gradation
921 10	pH 0 - 14	0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
921 15	pH 0.0 - 6.0	0 - 0.5 - 1.0 - 1.5 - 2.0 - 2.5 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0
921 18	pH 2.0 - 9.0	2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0
921 20	pH 4.5 - 10.0	4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0 - 9.5 - 10.0
921 22	pH 6.0 - 10.0	6.0 - 6.4 - 6.7 - 7.0 - 7.3 - 7.6 - 7.9 - 8.2 - 8.4 - 8.6 - 8.8 - 9.1 - 9.5 - 10.0
921 25	pH 7.0 - 14.0	7.0 - 7.5 - 8.0 - 8.5 - 9.0 - 9.5 - 10.0 - 10.5 - 11.0 - 11.5 - 12.0 - 12.5 - 13.0 - 13.5 - 14.0
921 80	pH 0.3 - 2.3	0.3 - 0.7 - 1.0 - 1.3 - 1.6 - 1.9 - 2.3
921 90	pH 1.7 - 3.8	1.7 - 2.0 - 2.3 - 2.6 - 2.9 - 3.2 - 3.5 - 3.8
921 30	pH 3.6 - 6.1	3.6 - 4.1 - 4.4 - 4.7 - 5.0 - 5.3 - 5.6 - 6.1
921 40	pH 5.1 - 7.2	5.1 - 5.4 - 5.7 - 6.0 - 6.3 - 6.6 - 6.9 - 7.2
921 50	pH 6.0 - 7.7	6.0 - 6.4 - 6.7 - 7.0 - 7.3 - 7.7
921 60	pH 7.5 - 9.5	7.5 - 7.9 - 8.2 - 8.4 - 8.6 - 8.8 - 9.1 - 9.5
921 70	pH 7.9 - 9.8	7.9 - 8.3 - 8.6 - 8.9 - 9.1 - 9.4 - 9.8

Presentation: Box with 100 sticks 6 x 85 mm

MACHEREY-NAGEL pH Indicator Papers -Pehanon®

PEHANON® Indicator Papers For pH Measurement in Coloured Solutions

PEHANON® is a series of pH indicator papers where the indicator and colour scale are combined on a single strip. They permit a fast, convenient and accurate determination of the pH value since they eliminate the necessity to compare the colour field against a separate scale. pH values are imprinted on the strips.





This presentation also permits the pH measurement of coloured solutions and suspensions, since the colour of the test solution acts on the colour scale in the same manner as on the indicator field, resulting in a comparison of mixed colours. The individual colour zones are separated by hydrophobic barriers. The indicator zone (unprinted field of about 6mm width) is in the middle of the strip, the comparison fields (4mm wide) are arranged above and below.

The strip is submerged in the solution for about three seconds so that all colour zones are wetted.The indicator zone (unprinted centre field) changes colour according to the pH value of the solution and is then compared against the colour fields on the strip.

The pH value is read from the closest matching field. An invisible hydrophobic silicone barrier just above the top colour field prevents capillary action of the test solution beyond that point and allows safe and clean handling with corrosive, toxic or otherwise noxious liquids.

The PEHANON® series covers the entire pH range from 0 to 14 with one universal paper and thirteen narrow ranges which overlap to permit utmost selectivity for the range suited to each particular need. The pH gradations within each strip have been established to offer maximum colour differentiation from one comparison field to the next depending on the individual indicator.

PEHANON® papers quarantee highest accuracy even when testing coloured solutions. Again - as with universal and special indicator papers - best results are obtained for buffered solutions and suspensions.

Cat No.	Pehanon® Range	Gradation
904 01	pH 1 - 12	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12
904 11	pH 0 - 1.8	0 - 0.3 - 0.6 - 0.8 - 1.0 - 1.2 - 1.5 - 1.8
904 12	pH 1.0 - 2.8	1.0 - 1.3 - 1.6 - 1.8 - 2.0 - 2.2 - 2.5 -2 .8
904 13	pH 1.8 - 3.8	1.8 - 2.1 - 2.4 - 2.7 -3.0 - 3.2 - 3.5 - 3.8
904 14	pH 2.8 - 4.6	2.8 - 3.1 - 3.4 - 3.6 - 3.8 - 4.0 - 4.3 - 4.6
904 15	pH 3.8 - 5.5	3.8 - 4.0 - 4.2 - 4.4 - 4.6 - 4.9 - 5.2 - 5.5
904 24	pH 4.0 - 9.0	4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0
904 16	pH 5.2 - 6.8	5.2 - 5.5 - 5.7 - 5.9 - 6.1 - 6.3 - 6.5 - 6.8
904 17	pH 6.0 - 8.1	6.0 - 6.3 - 6.6 - 6.9 - 7.2 - 7.5 - 7.8 - 8.1
904 19	pH 7.2 - 8.8	7.2 - 7.4 - 7.6 - 7.8 - 8.0 - 8.2 - 8.5 - 8.8
904 20	pH 8.0 - 9.7	8.0 - 8.2 - 8.4 - 8.6 - 8.8 - 9.1 - 9.4 - 9.7
904 21	pH 9.5 - 12.0	9.5 - 10.0 - 10.5 - 11.0 - 11.5 - 12.0
904 22	pH 10.5 - 13.0	10.5 - 11.0 - 11.5 - 12.0 - 12.5 - 13.0
904 23	pH 12.0 - 14.0	12.0 - 12.5 - 13.0 - 13.5 - 14.0

Presentation: Plastic Box Containing 200 Strips 11 x 100 mm

Cat No.	Pehanon® Range	Gradation
905 01 (Reel)	pH 1 - 11	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11
905 02 (Refill)	pH 1 - 11	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11

Presentation: Reel: Plastic dispenser with colour scale and 1 reel, packed in individual cardboard box.
Reel Size: DUOTEST and TRITEST: 5 m long and 10 mm wide, TRITEST L: 6 m long and 14 mm wide.
Refill Pack: Box with 3 reels, each reel separately sealed in polyethylene.

COD Measurement

Chemical Oxygen Demand (COD) is widely used as a measure of the pollutants in discharged waste waters. COD is also used for assessing the efficiency of water treatment plants and the load placed on these plants by incoming waste streams. COD analysis gives a rapid indication of the level of both organic and inorganic oxygen demanding pollutants. COD is defined as the quantity of specified oxidant (dichromate) that reacts with the sample under controlled conditions of temperature and time.



Reagecon offer all of the components required for rapid, confident analysis of COD. The measurement system complies with ISO 15705 & Standard Method 5220 D for chemical composition and for the requirement that digestion must take place at 150°C for 2 hours. Reagecon's COD set comprises of:

- The Aqualytic PC Compact COD Vario Photometer.
- 8 place & 25 place Thermoreactors (AL32 & AL38).
- 16mm diameter COD Reagent vials, covering 3 different measurement ranges.- see page
- A comprehensive range of COD standards, PC Compact and COD Vario. - see page

With 3 measuring ranges, accurate analysis of all samples is possible. The PC Compact COD Vario uses two LED light sources – these combine wavelength accuracy with outstanding durability.

Cat No.	Description
4209240	PC Compact COD Setup Complete with photometer, reactor AL 32, 2 sets of each, 25 vials 0-150mg/l and 0-1500mg/l and vial stand.

TECHNICAL DATA

Meas. Cycle	Approx. 3 seconds
Display	LCD
Optics	Temperature-compensated LEDs (1 = 605nm, • 2 = 430nm), and photo-sensor amplifier in waterproof sample chamber
Power Supply	9 V powerpack battery providing 40 hours operation
Auto - OFF	Automatic switch-off approx. 5 minutes after last keypress
Ranges	0 – 150 mg/l O_2 ±3.5% 0 – 1500 mg/l O_2 ±3.5% 0 –15000 mg/l O_2 ±3.5%
Dimensions	190x 110x 55 mm (LxWxH)
Weight	Base unit approx. 0.4 kg
Environmental Conditions	Temperature: 0 – 40°C rel. humidity: 30 – 90% (non-condensing)
CE-Conformity	EN 50081-1 VDE 0839 part 81-1: 1993-03 EN 50082-2 VDE 0839 part 82-2: 1996-02

Hardened Filter Papers for Quantitative Analysis

- Manufactured from refined pulp.
- Low ash content of < 0.01%.
- Suited for quantitative routine procedures and analytical gravimetric applications.
- High mechanical strength in wet conditions, they are particularly suited for applications where the residue is removed from the filter.

MN 640d		MN 1640m		MN 1640w		MN 640md		MN 640w	
Cat No. (Circle Filters)	Diameter (mm)	Cat No. (Circle Filters)	Diameter (mm)	Cat No. (Circle Filters)	Diameter (mm)	Cat No. (Circle Filters)	Diameter (mm)	Cat No. (Circle Filters)	Diameter (mm)
205005	55	223005	55	222005	55	204005	55	202005	55
205007	70	223007	70	222007	70	204007	70	202007	70
205009	90	223009	90	222009	90	204009	90	202009	90
205011	110	223011	110	222011	110	204011	110	202011	110
205012	125	223012	125	222012	125	204012	125	202012	125
205015	150	223015	150	222015	150	204015	150	202015	150
205018	185	223018	185	222018	185	204018	185	202018	185
205024	240	223024	240	222024	240	204024	240	202024	240
206032	320	223032	320	222032	320	204032	320	202032	320

Filter Cross Reference Table
Quantitative Papers

M-N	Whatman	S&S
640md	40	589/2
640w	41	589/1
640d	42	589/3
1640m	540	1506
1640w	541	1505

(All are supplied in a pack of 100)



Glass Fibre Papers / Quartz Fibre Papers

- Allow fast filtration with simultaneous very high particle retention.
- Manufactured from borosilicate glass fibres.
- Chemically resistant towards most organic and inorganic solvents (except HF).

Filter Cross Reference Table
Glass Fibre Papers

M-N	Whatman	S&S
GF-1	GF/A	GF50
GF-3	GF/C	GF52

(All are supplied in a pack of 100)

MN GF-1		MN GF-3	
Cat No. (Circle Filters)	Diameter (mm)	Cat No. (Circle Filters)	Diameter (mm)
4110025	25	4130025	25
4110037	37	4130037	37
4110045	45	4130045	45
411005	55	413005	55
411007	70	413007	70
411009	90	413009	90
411011	110	413011	110
411012	125	413012	125
411015	150	413015	150
411018	185	413018	185
411024	240	413024	240
411027	270	413027	270

MACHEREY-NAGEL Test Strips/Papers - Quantofix®

QUANTOFIX® Test Strips and Test Papers for Semi-Quantitative Determinations

Quantofix® Test sticks meet the most important requirements for a modern quick-test:

Rapid - Dip and read.

Convenient - The analysis can be carried out without any further equipment, only a single test stick of Quantofix® is needed.

Specific - Quantofix® test sticks are highly specific - possible interferences are eliminated by precipitation or masking.

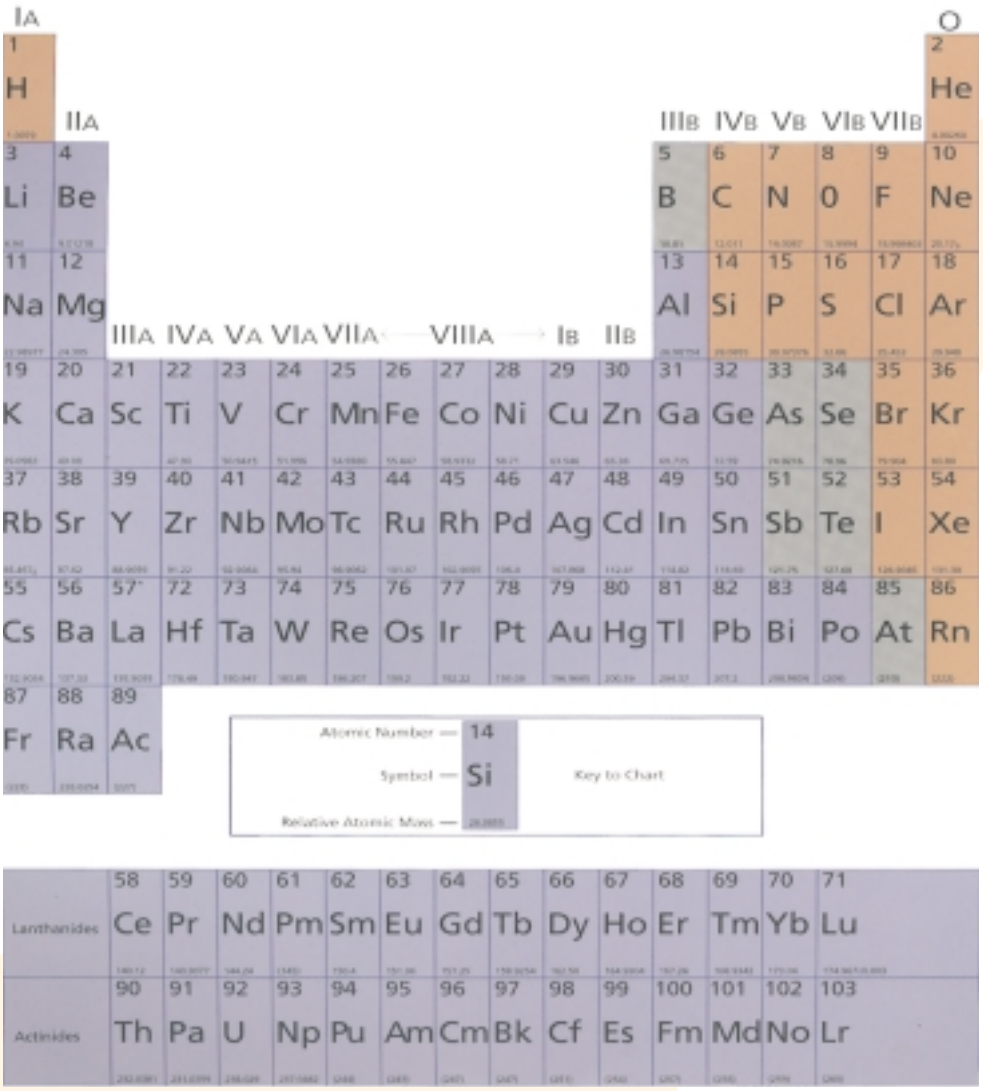
Stable - Shelf life 2.5 years (below +30°C).



Cat No.	Parameter	Gradation	Colour Change
913 07	Quantofix® Aluminium(1)	0 - 5 - 20 - 50 - 200 - 500 mg/l Al^{3+}	pink to red
913 15	Quantofix® Ammomium(1)	0 - 10 - 25 - 50 - 100 - 200 - 400 mg/1 NH_4^+	yellow to orange
913 34	Quantofix® Arsenic 10(1)	0 - 0.01 - 0.025 - 0.05 - 0.1 - 0.5 mg/l $As^{3+/5+}$	white to yellowish brown
913 32	Quantofix® Arsenic 50(1)	0 - 0.05 - 0.1 - 0.5 - 1.0 - 1.7 - 3.0 mg/l $As^{3+/5+}$	white to yellowish brown
913 14	Quantofix® Ascorbic acid (Vit C)	0 - 50 - 100 - 200 - 300 - 500 - 1000 - 2000 mg/l	yellow to green-blue
913 24 (2)	Quantofix® Calcium(1)	0 - 10 - 25 - 50 - 100 mg/l Ca^{2+}	yellow to red
913 23	Quantofix® Carbonate hardness	0 - 3 - 6 - 10 - 15 - 20 °d	light green to blue
913 21	Quantofix® Chloride	0 - 500 - 1000 - 1500 - 2000 - ≥ 3000 mg/l Cl^-	brown to yellow
913 17	Quantofix® Chlorine(1)	0 - 1 - 3 - 10 - 30 - 100 mg/l Cl_2	white to red violet
913 01	Quantofix® Chromate	0 - 3 - 10 - 30 - 100 mg/l CrO_4^{2-}	white to violet
913 03	Quantofix® Cobalt	0 - 10 - 25 - 50 -100 -250 - 500 - 1000 mg/l $C0^{2+}$	white to green-blue
913 04	Quantofix® Copper	0 - 10 - 30 - 100 - 300 mg/l $Cu^{+/2+}$	white to red-violet
913 18	Quantofix® Cyanide(1)	0 - 1 - 3 - 10 - 30 mg/l CN^-	white to red-violet
913 35	Quantofix® EDTA	0 - 100 - 200 - 300 - 400 mg/l EDTA	red to yellow
913 28	Quantofix® Formaldehyde(1)	0 - 10 - 20 - 40 - 60 - 100 - 200 mg/l HCHO	beige to blue-violet
913 02	Quantofix® Iron 1000(1)	0 - 5 - 20 - 50 - 100 - 250 - 500 - 1000 mg/l $Fe^{2+/3+}$	white to dark red
913 08	Quantofix® Iron 100(1)	0 - 2 - 5 - 10 - 25 - 50 - 100 mg/l $Fe^{2+/3+}$	white to blue velvet
913 25	Quantofix® Molybdenum(1)	0 - 5 - 20 - 50 - 100 -250 mg/l Mo^{6+}	white to green
913 05	Quantofix® Nickel	0 - 10 - 25 - 50 - 100 - 250 - 500 - 1000 mg/l Ni^{2+}	white to light red
913 13	Quantofix® Nitrate/nitrite	0 - 10 - 25 - 50 - 100 - 250 - 500 mg/l NO_3^-	white to red-violet
		0 - 1 - 5 - 10 - 20 - 40 - 80 mg/l NO_2^-	white to red-violet
913 11	Quantofix® Nitrite	0 - 1 - 5 - 10 - 20 - 40 -80 mg/l NO_2^-	white to red-violet
913 22	Quantofix® Nitrite 3000	0 - 0.1 - 0.3 - 0.6 - 1 - 2 - 3 g/l NO_2^-	yellow to red
913 33	Quantofix® Peroxide 1000	0 - 50 - 150 - 300 - 500 - 800 - 1000 mg/l H_2O_2	white to brown
913 12	Quantofix® Peroxide 100	0 - 1 - 3 - 10 - 30 - 100 mg/l H_2O_2	white to blue
913 19	Quantofix® Peroxide 25	0 - 0, 5 - 2 - 5 - 10 - 25 mg/l H_2O_2	white to blue
913 20	Quantofix® Phosphate(1)	0 - 3 - 10 - 25 - 50 - 100 mg/l PO_4^{3-}	white to blue-green
913 16	Quantofix® Potassium(1)	0 - 200 - 400 - 700 - 1000 - 1500 mg/l K^+	yellow to orange
913 29	Quantofix® Sulphate	<200 - >400 - >800 - >1200 - >1600 mg/l SO_4^{2-}	red to yellow
913 06	Quantofix® Sulphite	0 - 10 - 25 - 50 - 100 - 250 - 500 - 1000 mg/l SO_3^{2-}	white to salmon
913 09	Quantofix® Tin	0 - 10 - 25 - 50 - 100 - 250 - 500 mg/l Sn^{2+}	white to dark blue
913 10	Quantofix® Zinc(1)	0 - 2 - 5 - 10 - 25 - 50 -100 mg/l Zn^{2+}	orange to red
913 26	Quantofix® Multistick	0 - 5 - 10 - 15 - 20 - 25 °d total hardness	green to red
913 27(3)	For Aquarium Owners	0 - 3 - 6 - 10 - 15 - 20 °d carbonate hardness	light green to blue
		pH 6.4 - 6.8 - 7.2 - 7.6 - 8.0 - 8.4	yellow to red
91201	Aquadur® For Hardness Detection	0 - 5 - 10 - 15 - 20 - 25 °d	blue to red
91220	Aquadur® For Hardness Detection	0 - 5 - 10 - 15 - 20 - 21 °d	blue to red

Presentation: Container with 100 test sticks 6 x 95 mm (1) These tests are supplied complete with all reagents required for the determination (2) Presentation: container with 60 test sticks (3) Presentation: Container with 25 test sticks.

PERIODIC TABLE OF THE ELEMENTS



RELATIVE ATOMIC MASSES

ELEMENT	SYMBOL	ATOMIC MASS
Actinium	Ac	227.0278
Aluminium	Al	26.98154
Americium	Am	(243)
Antimony	Sb	121.75
Argon	Ar	39.948
Arsenic	As	74.9216
Astatine	At	(210)
Barium	Ba	137.33
Berkelium	Bk	(247)
Beryllium	Be	9.01218
Bismuth	Bi	208.9804
Boron	B	10.81
Bromine	Br	79.904
Cadmium	Cd	112.41
Caesium	Cs	132.9054
Calcium	Ca	40.08
Californium	Cf	(251)
Carbon	C	12.011
Cerium	Ce	140.12
Chlorine	Cl	35.453
Chromium	Cr	51.996
Cobalt	Co	58.9332
Copper	Cu	63.546
Curium	Cm	(246)
Dysprosium	Dy	162.50
Einsteinium	Es	(252)
Erbium	Er	167.26
Europium	Eu	151.96
Fermium	Fm	(257)
Fluorine	F	18.998403
Francium	Fr	(223)
Gadolinium	Gd	157.25
Gallium	Ga	69.72
Germanium	Ge	72.59
Gold	Au	196.9665
Hafnium	Hf	178.49
Helium	He	4.00260
Holmium	Ho	164.9304
Hydrogen	H	1.0079
Indium	In	114.82
Iodine	I	126.9045
Iridium	Ir	192.22
Iron	Fe	55.847
Krypton	Kr	83.80
Lanthanum	La	138.9055
Lawrencium	Lr	(260)
Lead	Pb	207.2
Lithium	Li	6.941
Lutetium	Lu	174.967
Magnesium	Mg	24.305
Manganese	Mn	54.9380
Mendelevium	Md	(258)
Mercury	Hg	200.59
Molybdenum	Mo	95.94
Neodymium	Nd	144.24
Neon	Ne	20.179
Neptunium	Np	237.0482
Nickel	Ni	58.69
Niobium	Nb	92.9064
Nitrogen	N	14.0067
Nobelium	No	(259)
Osmium	Os	190.2
Oxygen	O	15.9994
Palladium	Pd	106.42
Phosphorus	P	30.97376
Platinum	Pt	195.08
Plutonium	Pu	(244)
Polonium	Po	(209)
Potassium	K	39.0983
Praseodymium	Pr	140.9077
Promethium	Pm	(145)
Protactinium	Pa	231.0359
Radium	Ra	226.0254
Radon	Rn	(222)
Rhenium	Re	186.207
Rhodium	Rh	102.9055
Rubidium	Rb	85.4678
Ruthenium	Ru	101.07
Samarium	Sm	150.36
Scandium	Sc	44.9559
Selenium	Se	78.96
Silicon	Si	28.0855
Silver	Ag	107.868
Sodium	Na	22.98977
Strontium	Sr	87.62
Sulfur	S	32.06
Tantalum	Ta	180.9479
Technetium	Tc	(98)
Tellurium	Te	127.60
Terbium	Tb	158.9254
Thallium	Tl	204.383
Thorium	Th	232.0381
Thulium	Tm	168.9342
Tin	Sn	118.69
Titanium	Ti	47.88
Tungsten	W	183.85
Uranium	U	238.0289
Vanadium	V	50.9415
Xenon	Xe	131.29
Ytterbium	Yb	173.04
Yttrium	Y	88.9059
Zinc	Zn	65.38
Zirconium	Zr	91.22

Reagecon

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