

Schedule of Accreditation



Organisation Name	Reagecon Diagnostics Ltd.
INAB Reg No	264T
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	12/07/2010
Scope Classification	Chemical testing

Services available to the public¹

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered	
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)	
Name	Address
1 Head Office	Shannon Free Zone, Shannon, Clare, V14 X073

Scope of Accreditation

Head Office

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
797 Miscellaneous materials and products - .01 Chemical tests	Sodium Thiosulphate by redox reaction Iodine by redox reaction Acetous Perchloric Acid Silver Nitrate by argentometric titration EDTA by compleximetric titration		0.0099M to 1.001M 0.0499M to 0.5005M 0.0998M to 0.1002M 0.0499M to 1.002M 0.00998M to 1.002M		Titration	Documented In-House Methods using titrimetry, based on ASTM E200-08 TPATRX1 TPATRX2 TPAHCLO TPAGNO TPEDTA
	Acid Solutions Monobasic Acids Dibasic Acids		Monobasic Acids 0.0249M - 10.01M 0.0099M – 0.0240M Dibasic Acids 0.0249M – 10.01M		Titration	TPATA Acid Base Titration
	Base Solutions Hydroxide Ion		Hydroxide Ion 0.0199M – 0.0491M 0.0499M – 10.01M		Titration	TPATB Acid Base Titration
	Chemical tests		Analysis of elements for the following elements:- Lithium (Li 6) range 48µg/Kg to 1.43mg/Kg Lithium (Li 7) range 50µg/Kg to 1.49mg/Kg Scandium - range 48µg/Kg to 1.43mg/Kg Germanium - range 48µg/Kg to 1.43mg/Kg Yttrium - range 50µg/Kg to 1.49mg/Kg Rhodium - range 48µg/Kg to 1.43mg/Kg Indium - range 48µg/Kg to		ICP-MS	Documented In-House method TPCPIS by ICP-MS, based on US EPA Method 6020A

			1.43mg/Kg Terbium - range 48µg/Kg to 1.43mg/Kg Lutetium - range 48µg/Kg to 1.43mg/Kg Bismuth - range 48µg/Kg to 1.43mg/Kg			
			Analysis of elements in the range 49µg/Kg to 1.48mg/Kg for the following:- Beryllium Boron Sodium Magnesium Aluminium Phosphorus Potassium Calcium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Gallium Arsenic Selenium Rubidium Strontium Silver Cadmium Caesium		ICP-MS	Documented In-House method TPICP by ICP-MS, based on US EPA Method 6020A
			Analysis of elements in the range 49µg/Kg to 1.48mg/Kg for the following:- Hofnium Molybdenum Niobium Antimony Tin Tantalum Tellurium Titanium Tungsten Zirconium Silicon range 86µg/Kg to 1.48mg/Kg		ICP-MS	Documented In-House method TPICP by ICP-MS, based on US EPA Method 6020A
			Analysis of elements in the range 49µg/Kg to 1.48mg/Kg for the following:- Barium Lanthanum Cerium Praseodymium Neodymium		ICP-MS	Documented In-House method TPICP by ICP-MS, based on US EPA Method 6020A

<p>Samarium Europium Gadolinium Dysprosium Holmium Erbium Thulium Ytterbium Thallium Lead Thorium Uranium</p>			
<p>Analysis of elements metals for the following:- Sulphur:- range 1.50mg/Kg to 3.50mg/Kg Metals over the range 47µg/Kg to 1.41mg/Kg Ruthenium Palladium Rhenium Osmium Iridium Platinum Gold</p>		ICP-MS	Documented In-House method TPCIPPR by ICP-MS, based on US EPA Method 6020A
<p>Analysis of Mercury over the range 47µg/Kg to 1.41mg/Kg</p>		ICP-MS	Documented In-House method TPICPHG by ICP-MS, based on US EPA Method 6020A
<p>Determination of Total Base Number (TBN) 0.9 – 75 mg/g KOH</p>		Titration	Documented In-House Method based on ASTM D4379-11 - (2017) TPTBNUO / Automatic Titration
<p>Determination of (TIC) Total Inorganic Carbon Range 500 µg/l to 50.0 mg/l C</p>		TIC	Documented In-House Method TPTIC
<p>Determination of (TOC) Total Organic Carbon Range 500 µg/l to 50.0mg/l C</p>		TOC	Documented In-House Method TPTOC
<p>Determination of the following metals in the concentration range 100-1000 mg/L for the following elements: Bismuth Calcium Cadmium Cobalt Copper Indium Iron</p>		Titration	Documented in-house test method TPCOMPLEX by Compleximetric (EDTA) titration based on the primary methods described in

		Manganese Nickel Scandium Tin Vanadium Lead			Applied Complexometry- Pribil, Rudolf - Pergamon Press - 1982
		Determination of Total Acid Number from 0.09 mg/g KOH to 4.70 mg/g KOH		Titration	Documented in- house test method TP-TAN in accordance with ASTM D664, 2017a Test Method A
		Determination of Total Base Number from 0.9 mg/g KOH to 75 mg/g KOH		titration	Documented in- house test method TP-TBN in accordance with ASTM D2896 - 2015 Test Method A
	Chloride Solutions	Chloride Solutions 0.0099M to 0.0905M Chloride Solutions 0.0998M to 4.008M		Titration	Documented In- House volumetric methods based on methods from Vogel: Quantitative Inorganic Analysis, 4th Edition:- TPATPPT1
	General Reagents	Conductivity 4.95 to 505,000 μ S/cm @ 25 deg C Conductivity at 1.25 to 1.35 μ S/cm @ 25 deg C		Conductivity	TPCOND
	Standard Buffer Solutions Solid Buffers Aqueous General Reagents	pH 0.98 to 13.05 pH 3.98 to 10.02 pH 0.98 to 13.05		pH Measurement	TPPHB TPPHC TPPHG
797 Miscellaneous materials and products - .02 Physical tests	physical test	Analysis of PAH by GC/MS in the range of 10 to 2000 μ g/ml Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluorene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene		GC-MS	In-House Method TPGCMS04 by GC/MS.

			<p>Analysis of Pesticides by GC/MS in the range of 20 to 2000 µg/ml</p> <p>Aldrin Atrazine Gamma-Chlordane Chlorobenzilate Chloroneb Chlorothalonil DCPA p,p'-DDD p,p'-DDE p,p'-DDT Dieldrin Endosulfan 1 Endosulfan 2 Endosulfan sulfate Endrin Endrin aldehyde Etridiazole Alpha HCH Beta HCH Gamma-HCH (Lindane) Delta-HCH Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor cis Permethrin trans Permethrin Propachlor</p>		GC-MS	In-House Method TPGCMS04 by GC/MS.
			<p>Analysis of Pesticides by GC/MS in the range of 20 to 2000 µg/ml</p> <p>Simazine Trifluralin</p>		GC-MS	In-House Method TPGCMS04 by GC/MS.
			<p>Analysis of Phenols by GC/MS in the range of 20 to 2000 µg/ml</p> <p>4-Chloro-3-methyl phenol 2-Chlorophenol 2,4-Dichlorophenol 2,6-Dichlorophenol 2,4-Dimethyl phenol 4,6-Dinitro-2-methyl phenol 2,4-Dinitrophenol 2-(1-Methylpropyl)-4,6-dinitrophenol 2-Methyl phenol 3-Methyl phenol 2-Nitrophenol 4-Nitrophenol Pentachlorophenol 2,3,4,6-Tetrachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol</p>		GC-MS	In-House Method TPGCMS02 by GC/MS
			<p>Analysis of Volatile Organic Carbons by GC/MS in the range of 20 to 2000 µg/ml</p> <p>Benzene</p>		GC-MS	In-House Method TPGCMS01 by GC/MS

			<p>Bromobenzene Bromochloromethane Bromodichloromethane Bromoform n- Butylbenzene sec- Butylbenzene tert- Butylbenzene Carbon Tetrachloride Chloroform Chlorobenzene 2-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3- chloropropane Dibromoethane Dibromomethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethene Cis-1,2-Dichloroethane Trans-1,2- dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane</p>			
			<p>Analysis of Volatile Organic Carbons by GC/MS in the range of 20 to 2000 µg/ml Dichloromethane 1,2-Dichloropropane 2,2-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropene cis-1,2- Dichloropropene trans- 1,2-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene 4-Isopropyltoluene Naphthalene n- Propylbenzene Styrene Trichloroethene 1,1,1-Trichloroethene Toluene 1,1,2-Trichloroethane Tetrachloroethane 1,1,1,2- Tetrachloroethane 1,2,3-Trichloropropane 1,2,4- Trimethylbenzene 1,3,5-Trimethylbenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene (m+p) Xylenes o- Xylene Analysis of Volatile Organic Carbons by GC/MS in the range of 20 to 2000 µg/ml Dichloromethane 1,2-Dichloropropane 2,2-Dichloropropane 1,3-Dichloropropane</p>		GC-MS	In-House Method TPGCMS01 by GC/MS

			1,1-Dichloropropene cis-1,2-Dichloropropene trans-1,2-Dichloropropene Ethylbenzene Hexachlorobutadiene Isopropylbenzene 4-Isopropyltoluene Naphthalene n-Propylbenzene Styrene Trichloroethene 1,1,1-Trichloroethene Toluene 1,1,2-Trichloroethane Tetrachloroethane 1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene (m+p) Xylenes o-Xylene			
			Determination of Density 0.63 – 1.63 g/ml in the working temperature 15°C to 50°C		pycnometry	ASTM D1480-2015 TPPYC / Bingham Pycnometer
			Viscosity Measurement - Kinematic Viscosity and Dynamic Viscosity Temperature Range +20°C to +60°C - Kinematic Viscosity Range 0.85 to 110000 cSt Temperature Range +20°C to +60°C - Dynamic Viscosity Range 0.55 to 99000 mPa.s		viscosity	ASTM D2162-2017 Master Ubbelohde Capillary Viscometers / Viscometry
	physico-chemical test		Density of liquid materials range 0.65 to 1.034 g/ml		Vibrational density	Documented In-House method TPDMA5000M by vibrational methods, based on ASTM D4052 - 2018
			Osmolality range 50 to 3000 mOsm/kg H2O		Osmolality	Documented In-House method TPOSM 1500 and TPOSM - 3000, based on USP - 785 and EP - 7.0

			Refractive Index range 1.33310 to 1.65812nD Brix Value range 5% to 60% wt/wt		refractive index	Documented In- House method TPRIA 01, based on OIML R142