Reference Material and Inter-laboratory Quality Control Materials
Product Summary

August 2023

Version: 1

Assigned Values: Values provided have been generated from Inter-Laboratory Proficiency Programmes (ILPP) or from data provided by laboratories for the purpose of characterisation. The reference material values provided in this summary are the mean of the results after the exclusion of statistical outliers. The Assigned Range provided for the Inter-laboratory QC Materials is the range of test values available for purchase. Each Reference and QC Material comes with a Data Summary Sheet.

Missing Values and Available Tests: For Reference Materials where property values do not meet the statistical criteria, the summary values have not been provided. For this reason, not all tests will be available for every Reference Material of the same matrix. However, if there are 3 or more data points available, an Assigned Value will be provided with the corresponding QC material.

Sample Sizes: Available sample sizes are shown for reference materials.

Note: When ordering QC materials, please quote both the Product ID AND the process run

QC Material: Water - Basic Chem

Matrix: Water	Product ID	15022-QC	15023-QC
	Process Run	PR10898	PR10898
	Expiry Date	27 Oct 23	27 Oct 23
	Sample SIze	860mL	860mL
	Conductivity (µS/cm)	837	456
	pH (pH units)	7.50	7.33
	Total suspended Solid (mg/L)	17.1	54.2
	Turbidity (NTU)	6.14	10.8

QC Material: Water - Basic Chem - Chlorine

Matrix: Water	Product ID	15024-QC	15025-QC
	Process Run	PR10898	PR10898
	Expiry Date	11 Oct 23	11 Oct 23
	Sample SIze	8mL	8mL
	Free Available Chlorine (mg/L)	0.603	1.81
	Total Chlorine (mg/L)	0.640	1.88

QC Material: Water - Potable Water - Base

Matrix: Water	Product ID	15068-QC
	Process Run	PR10978
	Expiry Date	16 Nov 23
	Sample SIze	860mL
	Absorbance at 254nm (AU/cm)	
	Alkalinity to pH 4.5 (mg/ L)	60.2
	Ammonia-N (mg/L)	
	Boron (mg/L)	0.334
	Bromide (mg/L)	0.454
	Calcium (mg/L)	0.386
	Chloride (mg/L)	14.4
	Conductivity (uS/cm)	200
	Fluoride (mg/L)	0.368
	Hardness Total (mg/L)	27.8
	Magnesium (mg/L)	6.48
	Nitrate-N (mg/L)	1.16
	Nitrite-N (mg/L)	0.0525
	Nitrogen Total (mg/L)	1.26
	Nitrogen Total Ox. (mg/ L)	
	pH - Base Solution (pH units)	7.69
	pH - Standard (pH units)	7.66
	Phosphorus Diss. React (mg/L)	0.399
	Phosphorus Total (mg/ L)	
	Phosphorus Total Diss. (mg/L)	1.44
	Potassium (mg/L)	6.35
	Silica (as SiO2 mg/L)	10.3
	Sodium (mg/L)	28.1
	Sulphate (mg/L)	11.1

15069-QC
PR10978
16 Nov 23
860mL
0.0701
29.4
0.124
0.198
0.236
10.7
15.5
228
0.711
54.7
6.87
0.871
0.108
1.15
0.942
7.37
6.98
0.237
1.86
2.03
9.27
32.6
17.1
43.7

	Turbidity in Base (NTU)	2.07	3.19
	Turbidity Standard (NTU)	1.23	0.476

QC Material: Water - Potable Water - Chlorine

Matrix: Water	Product ID	15076-QC	15077-QC
	Process Run	PR10978	PR10978
	Expiry Date	8 Nov 23	8 Nov 23
	Sample Size	8mL	8mL
	Free Available Chlorine (mg/L)	0.547	1.44
	Total Chlorine (mg/L)	0.656	1.54

QC Material: Water - Potable Water - Colour Standard

Matrix: Water	Product ID	15070-QC
	Process Run	PR10978
	Expiry Date	9 Nov 23
	Sample Size	20mL
	Colour Standard (Pt-Co CU)	16.1

QC Material: Water - Potable Water - Solids

Matrix: Water	Product ID	15072-QC	15073-QC
	Process Run	PR10978	PR10978
	Expiry Date	9 Nov 23	9 Nov 23
	Sample SIze	20mL	20mL
	Total Dissolved Solids (mg/L)	88.1	208
	Total Solids (mg/L)	116	297
	Total Suspended Solids (mg/L)	30.0	95.0
	Total Volatile Solids (m g/L)	20.8	55.3
	Volatile Susp Solids (m g/L)	18.3	51.6

QC Material: Water - Potable Water - Trace Elements

Matrix: Water	Product ID	15074-QC
	Process Run	PR10978
	Expiry Date	16 Nov 23
	Sample SIze	200mL
	Aluminium (mg/L)	0.0675
	Antimony (mg/L)	0.0168
	Arsenic (mg/L)	0.0206
	Barium (mg/L)	0.0442
	Bismuth (mg/L)	0.165
	Cadmium (mg/L)	0.00874
	Chromium (mg/L)	0.0333
	Cobalt (mg/L)	0.0287
	Copper (mg/L)	0.00881
	Iron (mg/L)	0.0449
	Lead (mg/L)	0.0193
	Lithium (mg/L)	0.0548
	Manganese (mg/L)	0.0874
	Mercury (mg/L)	0.0128
	Molybdenum (mg/L)	0.0522
	Nickel (mg/L)	0.0479
	Selenium (mg/L)	0.0250
	Strontium (mg/L)	0.114
	Vanadium (mg/L)	0.0290
	Zinc (mg/L)	0.0576

	15075-QC
	PR10978
	16 Nov 23
	200mL
	0.104
	0.0238
	0.0360
	0.0362
	0.0884
	0.0504
	0.00976
	0.0421
	0.0169
	0.115
	0.0102
	0.169
	0.126
	0.00845
	0.0977
	0.0863
	0.0831
	0.245
	0.0111
	0.0894

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