NHS Greater Glasgow & Clyde Immunology and Neuroimmunology		
QF_59	**Uncertainty of Measurement Summary Table for Complement Function Asays**	**Version: 2**
Author: Lauren Hennessy	**Authoriser: Sylvia Arthur / Moira Thomas**	**Date of Issue: 17/06/22**

Uncertainty of Measurement: Summary table for complement function assays

Uncertainty of measurement (UoM) is calculated using internal quality control (IQC)

The raw data and calculations can be found at the following location: Y:\COMMON\1IMM&NI\Quality\Uncertainty of Measurement

Analyte	**C1 inhibitor function**
	C1EFN IQC
Mean (x)	46.3
Number of measurements (n)	11
Estimated Standard Deviation (s)	7.83
Coefficient of Variance (%CV)	16.92%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**± 33.8%**
Uncertainty of measurement **example** (using IQC)	46.3 ± 15.65% (30.6 – 61.9%)

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Analyte	**Classical complement function**
	CMPFNA04 IQC
Mean (x)	640.1
Number of measurements (n)	21
Estimated Standard Deviation (s)	71.83
Coefficient of Variance (%CV)	11.22%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**± 22.4%**
Uncertainty of measurement **example** (using IQC**)**	640.1 ± 143.65 CH100U/mL (496.5 – 783.8 CH100U/mL)

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Analyte	**Alternative complement function**
	CMPFNC04 IQC
Mean (x)	96.5
Number of measurements (n)	22
Estimated Standard Deviation (s)	8.82
Coefficient of Variance (%CV)	9.14%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**± 18.3%**
Uncertainty of measurement **example** (using IQC**)**	96.5 ± 17.64% (78.9- 114.2%)

For the details of the calculation and UoM protocol please refer to document QP_5: Uncertainty of Measurement Protocol.