NHS Greater Glasgow & Clyde Immunology and Neuroimmunology		
QF_59	**Measurement Uncertainty Summary Table for Complement Function Asays**	**Version: 3**
Author: Lauren Hennessy	**Authoriser: Sylvia Arthur / Fran Henriquez**	**Date of Issue: 27/06/25**

Uncertainty of Measurement: Summary table for complement function assays

Measurement Uncertainty (MU) is calculated using internal quality control (IQC)

The raw data and calculations can be found at the following location:
\\xggc-fsrv-04\GGC Biochemistry\South Glasgow\Immunology Common\COMMON\1IMM&NI\QUALITY\Quality Control\Uncertainty of Measurement

Analyte	C1 inhibitor function
	C1EFN IQC
Mean (x)	102.8
Number of measurements (n)	9
Estimated Standard Deviation (s)	9.57
Coefficient of Variance (%CV)	9.31%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**±18.6 %**
Uncertainty of measurement **example** (using IQC**)**	102.8 ± 19.1% (83.7 – 121.9%)

Analyte	Classical complement function
	CPAP IQC
Mean (x)	76.7
Number of measurements (n)	7
Estimated Standard Deviation (s)	10.31
Coefficient of Variance (%CV)	13.44%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**± 26.9%**
Uncertainty of measurement **example** (using IQC**)**	76.7 ± 20.6% (56 – 97%)

CONTROLLED DOCUMENT

Analyte	**Alternative complement function**
	CPAP IQC
Mean (x)	103.7
Number of measurements (n)	12
Estimated Standard Deviation (s)	17.90
Coefficient of Variance (%CV)	17.25%
Coverage factor (k) to define a confidence level of 95%	2
Relative standard expanded uncertainty (U)	**± 34.5%**
Uncertainty of measurement **example** (using IQC**)**	103.7 ± 35.8% (67.9- 139.5%)

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

CONTROLLED DOCUMENT