

<b>NHS Greater Glasgow &amp; Clyde Immunology and Neuroimmunology</b>		
<b>QF_59</b>	<b>Uncertainty of Measurement Summary Table for Complement Function Assays</b>	<b>Version: 1</b>
<b>Author: Lauren Hennessy</b>	<b>Authoriser: Moira Thomas</b>	<b>Date of Issue: 15/06/20</b>

### 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	<b>C1 inhibitor function</b>
	C1 inhibitor IQC
Mean (x)	103.4
Number of measurements (n)	6
Estimated Standard Deviation (s)	9.24
Coefficient of Variance (%CV)	8.93%
Coverage factor (k) to define a confidence level of 95%	2
<b>Relative standard expanded uncertainty (U)</b>	<b>± 17.9%</b>
Uncertainty of measurement <b>example</b> (using IQC)	103.4 ± 18.47% (85.0 – 121.9%)

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Analyte	Classical complement function
	CMPFN IQC
Mean (x)	521.0
Number of measurements (n)	15
Estimated Standard Deviation (s)	55.86
Coefficient of Variance (%CV)	10.72%
Coverage factor (k) to define a confidence level of 95%	2
<b>Relative standard expanded uncertainty (U)</b>	<b>± 21.4%</b>
Uncertainty of measurement <b>example</b> (using IQC)	521 ± 111.72 CH100U/mL (409.2 – 632.9 CH100U/mL)

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Analyte	Alternative complement function
	CMPFN IQC
Mean (x)	120.3
Number of measurements (n)	16
Estimated Standard Deviation (s)	23.58
Coefficient of Variance (%CV)	19.61%
Coverage factor (k) to define a confidence level of 95%	2
<b>Relative standard expanded uncertainty (U)</b>	<b>± 39.2%</b>
Uncertainty of measurement <b>example</b> (using IQC)	120.3 ± 47.16 % (73.1 - 164.7%)

For the details of the calculation and UoM protocol please refer to document QP\_5: Uncertainty of Measurement Protocol.