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**Supplemental Table 2: assays agreement and concordance in cases stratified by format**

<b>Format</b>	<b># assays</b>	<b>APPA<sup>°</sup></b>	<b>AC1<sup>§</sup></b>	<b>K<sup>*</sup></b>	<b>W<sup>^</sup></b>	<b>OCCC<sup>™</sup></b>
<b>Antibody Dependent Agglutination PCR (ADAP)</b>	1	-	-	-	-	-
<b>Bridge-ELISA</b>	12	96.3%	0.94	0.013	0.96	0.49
<b>Radio Binding Assay (RBA)</b>						
Truncated GAD65 aa96-585	4	94.3%	0.90	-0.011	0.98	-
Local protocol	9	90.3%	0.82	0.235	0.96	-
Harmonized protocol	5	87.6%	0.77	0.207	0.97	0.77'
<b>Luciferase Immuno Precipitation System (LIPS)</b>						
NLuc reporter GAD65 aa96-585	4	94.7%	0.91	0.49	0.97	-
NLuc reporter GAD65 aa188-585	2	98.9%	0.99	0.66	0.98	-
NLuc reporter GAD65 aa1-585	1	-	-	-	-	-
FLuc reporter GAD65 aa96-585	1	-	-	-	-	-
<b>Electro Chemi Luminescence (ECL)</b>						
ECL	2	85.3%	0.88	-0.028	0.97	-
ECL IgG specific	1*	-	-	-	-	-
ECL IgM specific	1*	-	-	-	-	-
ECL IgA specific	1*	-	-	-	-	-
<b>Chemi Luminescence Immuno Assay (CLIA)</b>	2	84.0%	0.73	-0.034	0.93	-
<b>Multiplex Plasmonic Near-InfraRed Fluorescence (MPNIRF)</b>	1	-	-	-	-	-
<b>Luminex Bead Immunoassay (LBI)</b>	2	96.0%	0.92	-	0.99	-
<b>Multiplex Fluorescence Energy Transfer (MFRET)</b>	1	-	-	-	-	-
<b>All assays - mean (95% c.i.)</b>	48	83.1%	0.69 (0.61 - 0.78)	0.026 (0.011-0.041)	0.80	0.51'

<sup>°</sup>APPA: Average Pairwise Percent Agreement

<sup>§</sup>AC1: Gwet's agreement coefficient

<sup>\*</sup>K: Fleiss K agreement coefficient

<sup>^</sup>W: Kendall's W rank agreement coefficient

<sup>™</sup>OCCC: Barnhart's Overall Concordance Correlation Coefficient; ' applies to assays expressing results in WHO units

**Supplemental Table 3: concordance in control samples stratified by assay format**

<b>Format</b>	<b># assays</b>	<b>APPA<sup>°</sup></b>	<b>AC1<sup>§</sup></b>	<b>K<sup>*</sup></b>	<b>W<sup>^</sup></b>	<b>OCCC<sup>™</sup></b>
<b>Antibody Dependent Agglutination PCR (ADAP)</b>	1	-	-	-	-	-
<b>Bridge-ELISA</b>	12	98.4%	0.98	0.012	0.15	NC
<b>Radio Binding Assay (RBA)</b>						
Truncated GAD65 aa96-585	4	97.7%	0.98	-0.011	0.76	-
Local protocol	9	97.2%	0.97	0.235	0.44	-
Harmonized protocol	5	96.2%	0.96	0.207	0.56	0.41
<b>Luciferase Immuno Precipitation System (LIPS)</b>						
NLuc reporter GAD65 aa96-585	4	99.2%	0.99	0.49	0.57	-
NLuc reporter GAD65 aa188-585	2	98.9%	0.99	0.66	0.76	-
NLuc reporter GAD65 aa1-585	1	-	-	-	-	-
FLuc reporter GAD65 aa96-585	1	-	-	-	-	-
<b>Electro Chemi Luminescence (ECL)</b>						
ECL	2	94.4%	0.94	-0.028	0.46	-
ECL IgG specific	1*	-	-	-	-	-
ECL IgM specific	1*	-	-	-	-	-
ECL IgA specific	1*	-	-	-	-	-
<b>Chemi Luminescence Immuno Assay (CLIA)</b>	2	93.3%	0.92	-0.034	0.58	-
<b>Multiplex Plasmonic Near-InfraRed Fluorescence (MPNIRF)</b>	1	-	-	-	-	-
<b>Luminex Bead Immunoassay (LBI)</b>	2	-	-	-	0.98	-
<b>Multiplex Fluorescence Energy Transfer (MFRET)</b>	1	-	-	-	-	-
<b>All assays - mean (95% c.i.)</b>	48	96.1%	0.96 (0.95 - 0.97)	0.026 (0.011-0.041)	0.13	NC

<sup>°</sup>APPA: Average Pairwise Percent Agreement

<sup>§</sup>AC1: Gwet's agreement coefficient

<sup>\*</sup>K: Fleiss K agreement coefficient

<sup>^</sup>W: Kendall's W rank agreement coefficient

<sup>™</sup>OCCC: Barnhart's Overall Concordance Correlation Coefficient; 'applies to assays expressing results in WHO units

NC = cannot be computed