Evaluation Report Summary for SARS-CoV-2 IgG/IgM

1. People's Hospital of Wuhan University (Wuhan, Hubei)

A. SARS-CoV-2 IgG: Based on 254 patient samples.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAT
YHLO	Positive	106	2	108
Reagents	Negative	2	118	120
Total		108	120	228

Sensitivity = (106/108) × 100%=98.1%

Specificity = (118/120) × 100%=98.3%

PPV=(106/108) × 100% =98.1%

NPV=(118/120) × 100% =98.3%

B. SARS-CoV-2 IgM: Based on 254 patient samples.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAT
YHLO	Positive	98	0	98
Reagents	Negative	10	120	130
Total		108	120	228

Sensitivity = (98/108) × 100%=90.7%

Specificity = (120/120) ×100%=100%

PPV=(98/98) × 100% =100%

NPV=(120/130) × 100% =92.3%

2. Tongji Medical College of Huazhong University of Science and Technology (Wuhan, Hubei)

A. SARS-CoV-2 IgG: Based on 141 patient samples with confirmed or excluded

conclusion.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	
YHLO	Positive	44	2	46
Reagents	Negative	1	94	95
Total		45	96	141

Sensitivity = (44/45) × 100%=97.8%

Specificity = (94/96) × 100%=97.9%

PPV=(44/46) × 100% =95.7%

NPV=(94/95) × 100% =98.9%

B. SARS-CoV-2 IgM: Based on 141 patient samples with confirmed or excluded conclusion.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAI
YHLO	Positive	38	2	40
Reagents	Negative	7	94	101
Total		45	96	141

Sensitivity = (38/45) × 100% = 84.4%

Specificity = (94/96) ×100% = 97.9%

PPV=(38/40) × 100% =95.0%

NPV=(94/101) × 100% =93.1%

3. The 5th Affiliated Hospital of Sun Ya-Sen University (Guangdong)

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOTAL
YHLO	Positive	8	1	9
Reagents	Negative	0	49	49
Total		8	50	58

A. SARS-CoV-2 IgG: Based on 58 patient samples

Sensitivity = (8/8) × 100% = 100%

Specificity = (49/50) × 100% = 98%

PPV=(8/9)× 100% =88.9%

NPV=(49/49)× 100% =100%

B. SARS-CoV-2 IgM: 58 patient samples.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAT
YHLO	Positive	8	0	8
Reagents	Negative	0	50	50
Total		8	50	58

Sensitivity = (8/8) × 100% = 100%

Specificity = (50/50) ×100% = 100%

PPV=(8/8)× 100% =100%

NPV=(50/50)× 100% =100%

4. Huangshi Central Hospital (Huangshi, Hubei):

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAT
YHLO	Positive	66	9	75
Reagents	Negative	2	92	94
Total		68	101	169

A. SARS-CoV-2 IgG: Based on 169 patient samples

Sensitivity = (66/68) × 100% = 97.1%

Specificity = (92/101) × 100% = 91.1%

PPV=(66/75)× 100% =86.7%

NPV=(92/94)× 100% =97.9%

B. SARS-CoV-2 IgM: Based on 169 patient samples.

		Clinical Information of Patients		Total
		Confirmed Positive Patients	Negative Patients	TOLAT
YHLO	Positive	60	1	61
Reagents	Negative	8	100	108
Total		68	101	169

Sensitivity = (60/68) × 100% = 88.2%

Specificity = (100/101) ×100% = 99.0%

PPV=(60/61)× 100% =98.4%

NPV=(100/108)× 100% =92.6%