

NZY Mag Viral

RNA/DNA Isolation Kit, IVD



Molecular
biology



Molecular
diagnostics



CAZymes



Analytical
products



Molecular
services

Clinical Equivalence and Cross-Isolation

Clinical equivalence of NZY Mag Viral RNA/DNA Isolation Kit

R N A	SARS-CoV-2 copies/reaction	Ct Mean	SD	CV (%)
	1000	29,71	0,30	1,02
	500	31,06	0,26	0,83
	100	33,56	0,32	0,96
	50	34,74	0,80	2,32
D N A	CMV copies/reaction	Ct Mean	SD	CV (%)
	1000	29,60	0,50	1,68
	500	30,95	0,64	2,06
	100	33,61	0,67	2,01
	50	34,71	0,81	2,34

Clinical equivalence was tested through the isolation of CMV and SARS-CoV-2 nucleic acids using NZYTech NZY Mag Viral RNA/DNA Isolation Kit, IVD, and a commercial IVD kit employing the same extraction protocol (AppliedBiosystems, MagMAX™ Viral/Pathogen II Nucleic Acid Isolation Kit, CE-IVD, #A48383). Tests were performed using a pool of negative human nasopharyngeal swabs contrived with the two viruses at four different copy numbers (1000, 500, 100 and 50 viral copies/reaction). In a total of 80 samples extracted with each kit for the two virus (160 samples extracted per virus), the data revealed no significant differences in extraction efficacy, as presented in the Table above.

Precision

Precision was evaluated by measuring Cq average, Cq coefficient of variation and % of replicate detection.

24

Positive human nasopharyngeal swabs with variable viral loads

3

Different kit batches

62

Positive tested samples

=

Identical sensibility to known IVD kit

Clinical Evaluation

Collected respiratory clinical samples were evaluated by an external laboratory.

Automated Workflow

96

Nasopharyngeal swab specimens

<30

Fast Processing under 30 minutes

Flexible Protocol

200 µL

Transport medium

50 µL

Elution volume

Compatibility

Protocol options for NZY Mag Viral RNA/DNA Isolation kit, IVD, support automated workflows in a variety of platforms, including KingFisher™ Flex Magnetic Particle Processor with a 96 deep-well head



**MAGNETIC
BEAD
TECHNOLOGY**



**READY TO USE ON
RT-PCR or RT-qPCR
AMPLIFICATION**



IVD



**DNA/RNA
PURIFICATION**