

RNA Extraction Options

For each of the kits listed below, CDC has confirmed that the external lysis buffer is effective for inactivation of SARS-CoV-2.

Instrument/Manufacturer	Extraction Kit	Catalog No.
QIAGEN	² QIAamp DSP Viral RNA Mini Kit	50 extractions (61904)
	² QIAamp Viral RNA Mini Kit	50 extractions (52904) 250 extractions (52906)
QIAGEN EZ1 Advanced XL	² EZ1 DSP Virus Kit	48 extractions (62724) Buffer AVL (19073) EZ1 Advanced XL DSP Virus Card (9018703)
	² EZ1 Virus Mini Kit v2.0	48 extractions (955134) Buffer AVL (19073) EZ1 Advanced XL Virus Card v2.0 (9018708)
¹ Roche MagNA Pure LC	² Total Nucleic Acid Kit	192 extractions (03 038 505 001)
¹ Roche MagNA Pure Compact	² Nucleic Acid Isolation Kit I	32 extractions (03 730 964 001)
¹ Roche MagNA Pure 96	² DNA and Viral NA Small Volume Kit	576 extractions (06 543 588 001) External Lysis Buffer (06 374 913 001)
¹ QIAGEN QIAcube	² QIAamp DSP Viral RNA Mini Kit	50 extractions (61904)
	² QIAamp Viral RNA Mini Kit	50 extractions (52904) 250 extractions (52906)
^{1, 3} bioMérieux NucliSENS [®] easyMAG [®] and ^{1, 3} bioMérieux EMAG [®] (Automated magnetic extraction reagents sold separately. Both instruments use the same reagents and disposables, with the exception of tips.)		EasyMAG [®] Magnetic Silica (280133) EasyMAG [®] Lysis Buffer (280134) EasyMAG [®] Lysis Buffer, 2 mL (200292) EasyMAG [®] Wash Buffers 1,2, and 3 (280130, 280131, 280132) EasyMAG [®] Disposables (280135) Biohit Pipette Tips (easyMAG [®] only) (280146) EMAG [®] 1000µL Tips (418922)

¹Equivalence and performance of these extraction platforms for extraction of viral RNA were demonstrated with the CDC Human Influenza Virus Real-Time RT-PCR Diagnostic Panel (K190302). Performance characteristics of these extraction platforms with 2019-nCoV (SARS CoV-2) have not been demonstrated.

² CDC has confirmed that the external lysis buffer used with this extraction method is effective for inactivation of SARS-CoV-2.

³ CDC has compared the concentration of inactivating agent in the lysis buffer used with this extraction method and has determined the concentration to be within the range of concentrations found effective in inactivation of SARS-CoV-2.