MagNA Pure 24 system protocols

Target	Protocol name	Input sample type and sample volumes										Elution volume	Run time† (h:mm)
		Whole blood	Plasma	Serum	Nasal swabs*	BAL**	Urine	Stool	Cultured cells	Fresh-frozen tissue	FFPET***		
Bacterial, fungal, and viral NA	**Pathogen 200** Protocol optimized for yield and purity	200 µL										50 or 100 µL	1:14
	Fast Pathogen 200 8 sample protocol optimized for speed												0:33
	Pathogen 1000 Protocol optimized for yield and purity	500 or 1,000 µL											1:31
	External Lysis Pathogen 200 Protocol optimized with external lysis buffer	450 µL lysate from 200 µL sample											1:22
	External Lysis Pathogen 500 Protocol optimized with external lysis buffer	1,450 µL lysate from 500 µL sample											1:31
Genomic DNA	**hgDNA 200** Protocol optimized for human genomic NA	200 µL (≤2 × 10^6 cells)							Up to 5 x 10^5	Up to 5 mg			1:07
	Fast hgDNA 200 8 sample protocol optimized for speed												0:27
	hgDNA ds 200 Recommended when double -stranded DNA is required												1:07
	hgDNA 1000 Protocol optimized for human genomic NA	500 µL (≤5 × 10^6 cells) 1,000 µL (≤1 × 10^7 cells)							Up to 1 x 10^6			100 or 200 µL	2:16
	DNA FFPET 1000 Deparaffinization and lysis on board										Up to 6 x 5 µm sections (up to 6 mm^3)	50 or 100 µL	5:36
Cell-free NA	**cfNA ss 2000** **cfNA ss 4000** Protocols optimized for single-stranded DNA		2,000 µL 4,000 µL									50 or 100 µL	1:44 2:25
	cfNA ds 2000 **cfNA ds 4000** Protocols optimized for double-stranded DNA		2,000 µL 4,000 µL									100, 150, or 200 µL	2:09 2:49
	cfNA ds 4000 hp Protocol optimized for double-stranded DNA and NGS		4,000 µL									60 or 150 µL	3:57
Liquid handling	**Sample Transfer** to the processing cartridge for 24 samples	200 µL 500 µL 1,000 µL											0:08
	PCR Setup for 5-25 µL per eluate for PCR Setup in FrameStrip with flat caps-Low Profile or LightCycler® 8-tube strips for 24 eluates												0:01
	Archiving for 25-50 µL per eluate FrameStrip low profile strips, or LightCycler® 8-tube strips for 24 eluates												0:01

*Nasopharyngeal/nasal swabs
**BAL - Bronchoalveolar lavage
***FFPET - formalin-fixed paraffin-embedded tissue
†These times are approximate and should only be used as a guidance.
[1] For general laboratory use.
[2] For life science research only. Not for use in diagnostic procedures.

To get better results, Roche provides various External Lysis Buffers: MagNA Pure cfNA Buffer Set[1] (Cat. no. 07 794 398 001), MagNA Pure External Lysis Buffer (Cat. no. 06 374 913 001), MagNA Pure Bacterial Lysis Buffer (Cat. no. 06 374 921 001), MagNA Pure DNA Tissue Lysis Buffer (Cat. no. 06 640 702 001), MagNA Pure FFPET Buffer Set[1] (Cat. no. 08 447 144 001), and S.T.A.R. Buffer[2] (Cat. no. 03 335 208 001). Please refer to the instructions for use manual for more details.

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