

QIAxpert® – Instrument Apps and Kit Compatibility

The QIAxpert system provides two different options for nucleic acid quantification:

Classic absorbance-based quantification

This method uses the value of A_{260} for quantification of nucleic acids. Absorbance ratios (A_{260}/A_{280} and A_{260}/A_{230}) are shown for purity analysis.

Spectral content profiling

The QIAxpert spectral content profiling applications (“apps”) enable accurate, dye-free quantification of complex samples containing multiple UV/VIS-absorbing chemicals that may interfere with the A_{260} or A_{280} absorbance methods. These apps have been designed specifically for analysis of nucleic acids that have been purified using QIAGEN® chemistries.

Spectral content profiling apps are available for:

- Mammalian genomic DNA (gDNA) purified with QIAamp®, QIASymphony® or EZ1® technology
- PCR amplicons purified with QIAquick® technology
- Total RNA purified with RNeasy® technology
- Human whole blood RNA purified with PAXgene® Blood RNA technology

These apps use state-of-the-art software algorithms to extract the contribution of specific components in a mixture from the measured UV/VIS spectrum. The principle is based on Beer’s law for mixtures, which states that the absorption spectrum of a mixture is a linear combination of the spectra of the constituents. Using reference spectra, the inverse solution of decomposing a measured spectrum in a linear combination of spectra originating from its constituents is used to determine concentrations of a mixture’s components. The contribution of the profile of the molecule of interest (e.g., DNA or RNA), together with the residual profile of impurities and sample turbidity, can be accurately determined within the recorded spectrum.

QIAxpert spectral content profiling apps have been developed based on specific QIAGEN kits. Since these nucleic acid purification kits are designed to provide optimal performance and results for their intended use, kits from the same product line may contain different buffers and constituents. The following tables provide an overview on the compatibility of QIAxpert spectral content profiling apps with QIAGEN kits.

QIAGEN is striving to continuously increase the number of available QIAxpert spectral content profiling apps to meet customer needs. For an up-to-date overview on available QIAxpert apps and compatibility information, please go to www.qiagen.com or contact QIAGEN Technical Service.

DNA QIAamp App

Cat. no.	Product	Compatibility		
		Yes, with app version:	No	Not tested
51304	QIAamp DNA Mini Kit (50)	≥ 2.0.0.5		
51305	QIAamp DNA Mini Kit (250)	≥ 2.0.0.5		
51326	QIAamp DNA Mini QIAcube® Kit (240)	≥ 2.0.0.5		
61304	QIAamp DSP DNA Mini Kit (50)	≥ 2.0.0.5		
51104	QIAamp DNA Blood Mini Kit (50)	≥ 2.0.0.5		
51106	QIAamp DNA Blood Mini Kit (250)	≥ 2.0.0.5		
61104	QIAamp DSP DNA Blood Mini Kit	≥ 2.0.0.5		
51126	QIAamp DNA Blood Mini QIAcube Kit (240)	≥ 2.0.0.5		
51161	QIAamp 96 DNA Blood Kit (4)	≥ 2.0.0.5		
61162	QIAamp DSP 96 DNA Blood Kit (12)	≥ 2.0.0.5		
51504	QIAamp DNA Stool Mini Kit (50)		■	
965842	QIAamp 96 DNA Swab BioRobot® Kit (12)			■
965942	QIAamp Investigator® BioRobot Kit (12)			■
56404	QIAamp DNA FFPE Tissue Kit	≥ 2.2.0.7		
60404	QIAamp DSP DNA FFPE Tissue Kit (50)	≥ 2.2.0.7		
180134	GeneRead™ DNA FFPE Kit	≥ 2.2.0.7		
69504	DNeasy® Blood & Tissue Kit (50)	≥ 2.0.0.5		
69506	DNeasy Blood & Tissue Kit (250)	≥ 2.0.0.5		
69581	DNeasy 96 Blood & Tissue Kit (4)	≥ 2.0.0.5		
69582	DNeasy 96 Blood & Tissue Kit (12)	≥ 2.0.0.5		
69104	DNeasy Plant Mini Kit (50)		■	
69106	DNeasy Plant Mini Kit (250)		■	
69181	DNeasy 96 Plant Kit (6)		■	
56304	QIAamp DNA Micro Kit (50)			■
51331	QIAamp 96 DNA QIAcube HT Kit			■

RNA RNeasy App

Cat. no.	Product	Yes, with app version:	Compatibility	
			No	Not tested
74104	RNeasy Mini Kit (50)	≥ 2.0.0.6		
74106	RNeasy Mini Kit (250)	≥ 2.0.0.6		
74134	RNeasy Plus Mini Kit (50)	≥ 2.0.0.6		
74136	RNeasy Plus Mini Kit (250)	≥ 2.0.0.6		
74116	RNeasy Mini QIAcube Kit (240)	≥ 2.0.0.6		
74034	RNeasy Plus Micro Kit (50)	≥ 2.0.0.6		
74192	RNeasy Plus 96 Kit (12)	≥ 2.0.0.6		
74182	RNeasy 96 Kit (12)	≥ 2.0.0.6		
74181	RNeasy 96 Kit (4)	≥ 2.0.0.6		
74004	RNeasy Micro Kit (50)	≥ 2.4.0.9		
74903	RNeasy Plant Mini Kit (20)	≥ 2.4.0.9		
74904	RNeasy Plant Mini Kit (50)	≥ 2.4.0.9		
74204	RNeasy MinElute Cleanup Kit (50)	≥ 2.4.0.9		
73304	RNeasy Microarray Tissue Mini Kit (50)	≥ 2.4.0.9		
74804	RNeasy Lipid Tissue Mini Kit (50)	≥ 2.4.0.9		
75842	RNeasy Lipid Tissue Midi Kit (10)	≥ 2.4.0.9		
74704	RNeasy Fibrous Tissue Mini Kit (50)	≥ 2.4.0.9		
74881	RNeasy 96 Universal Tissue Kit (4)	≥ 2.4.0.9		
74171	RNeasy 96 QIAcube HT Kit (5)	≥ 2.4.0.9		
217184	miRNeasy Serum/Plasma Kit (50)	≥ 2.4.0.9		
217061	miRNeasy 96 Kit (4)	≥ 2.4.0.9		
217004	miRNeasy Mini Kit (50)	≥ 2.4.0.9		
217084	miRNeasy Micro Kit (50)	≥ 2.4.0.9		
217004	miRNeasy Mini Kit (50)	≥ 2.4.0.9		
74124	RNeasy Protect Mini Kit (50)	≥ 2.4.0.9		
74126	RNeasy Protect Mini Kit (250)	≥ 2.4.0.9		
74324	RNeasy Protect Saliva Mini Kit (50)	≥ 2.4.0.9		
74624	RNeasy Protect Cell Mini Kit (50)	≥ 2.4.0.9		
74524	RNeasy Protect Bacteria Mini Kit (50)	≥ 2.4.0.9		
73224	RNeasy Protect Animal Blood Kit (50)			■
931636	QIASymphony RNA Kit (192)			■
73404	RNeasy Plus Universal Mini Kit (50)	≥ 2.4.0.9		
73442	RNeasy Plus Universal Midi Kit (10)	≥ 2.4.0.9		
73504	RNeasy FFPE Mini Kit (50)		■	

PCR QIAquick App

Cat. no.	Product	Compatibility		
		Yes, with app version:	No	Not tested
28181	QIAquick 96 PCR Purification Kit (4)	≥ 2.0.0.5		
28183	QIAquick 96 PCR Purification Kit (24)	≥ 2.0.0.5		
28704	QIAquick Gel Extraction Kit (50)			■
28706	QIAquick Gel Extraction Kit (250)			■
28706X4	QIAquick Gel Extraction Kit (1000)			■
28104	QIAquick PCR Purification Kit (50)	≥ 2.0.0.5		
28106	QIAquick PCR Purification Kit (250)	≥ 2.0.0.5		
28106X4	QIAquick PCR Purification Kit (1000)	≥ 2.0.0.5		

QIASymphony DNA App

Cat. no.	Product	Compatibility		
		Yes, with app version:	No	Not tested
931236	QIASymphony DNA Mini Kit (192)	≥ 2.2.0.5		
931255	QIASymphony DNA Midi Kit (96)	≥ 2.2.0.5		
951034	EZ1 DNA Blood 200 Kit (48)	≥ 2.2.0.5		
951054	EZ1 DNA Blood 350 Kit (48)	≥ 2.2.0.5		
953034	EZ1 DNA Tissue Kit (48)	≥ 2.2.0.5		

PAXgene RNA App

Cat. no.	Product	Compatibility		
		Yes, with app version:	No	Not tested
762174, 762164	PAXgene Blood RNA Kit (50)	≥ 2.2.0.1		
762635	QIASymphony PAXgene Blood RNA Kit (96)	≥ 2.2.0.1		
762431	PAXgene Blood RNA MDx Kit (4)	≥ 2.2.0.1		
762331	PAXgene 96 Blood RNA Kit (4)	≥ 2.2.0.1		
763134	PAXgene Blood miRNA Kit (50)	≥ 2.2.0.1		

The QIAxpert is intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease. It is the user's responsibility to validate performance using this combination for any procedures used in their laboratory.

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