

### A complete system for blood collection and RNA purification

The PAXgene 96 Blood RNA Kit\* allows high-throughput isolation of total RNA from 96 x 2.5 ml human whole blood. Together with PAXgene Blood RNA Tubes, it provides a complete preanalytical solution for collection, stabilization, and purification of high-quality RNA.

### Fast, easy procedure

The high-throughput procedure is easy and efficient. Processing 96 samples in parallel saves time in your clinical research studies; 96 samples can be processed in 3.5 hours.

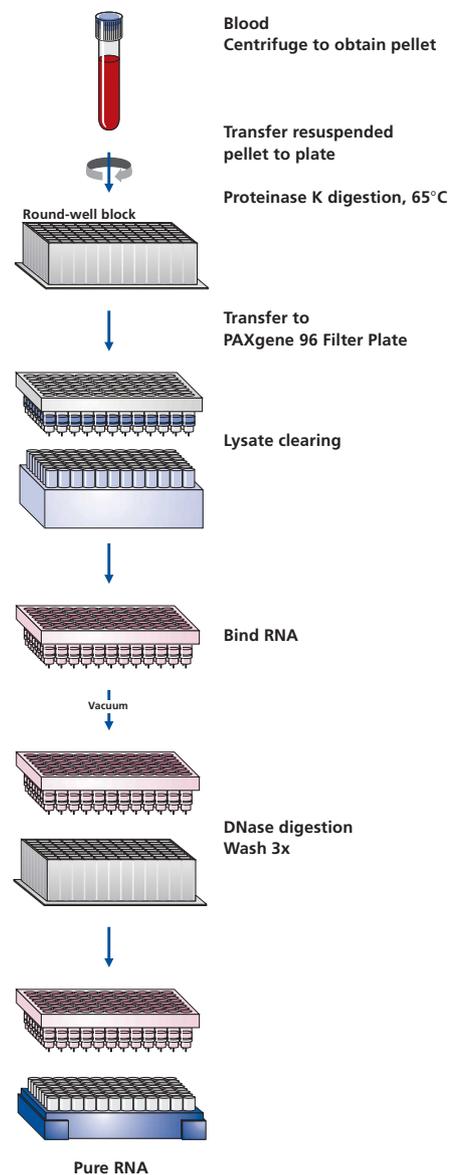
Lysates are applied to the PAXgene 96 Filter Plate and centrifuged to remove cell debris. The lysate is then transferred to a PAXgene 96 RNA Plate (see flowchart). Residual DNA is removed through a DNase I digestion. Remaining contaminants are removed in three efficient wash steps before pure RNA is eluted.

### Reliable and reproducible purification

The robust PAXgene 96 Blood RNA procedure is designed to minimize the risk of sample-to-sample cross-contamination (Figure 1). The procedure typically yields between 4 and 20 µg RNA from 2.5 ml human whole blood (Figure 2) and is highly reproducible (Figure 3).

\* To be used in conjunction with PAXgene Blood RNA Tubes (cat. no. 762115 [US and Canada], 762105 [Japan], 762125 [all other countries]).

### The PAXgene 96 Blood RNA procedure



## Cross-contamination-free purification

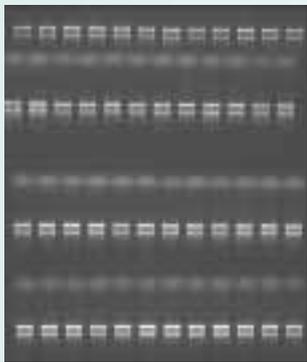
	1	2	3	4	5	6	7	8	9	10	11	12
A	23.02	40.00	22.64	40.00	23.62	40.00	22.08	40.00	22.61	40.00	23.04	40.00
B	40.00	21.77	40.00	21.79	40.00	22.89	40.00	22.30	40.00	23.09	40.00	22.61
C	23.07	40.00	22.68	40.00	21.82	40.00	22.11	40.00	22.69	40.00	23.06	40.00
D	40.00	22.51	40.00	22.07	40.00	23.13	40.00	22.52	40.00	22.30	40.00	23.04
E	23.01	40.00	21.73	40.00	22.88	40.00	22.61	40.00	23.52	40.00	22.96	40.00
F	40.00	22.61	40.00	22.63	40.00	23.19	40.00	21.79	40.00	22.68	40.00	21.69
G	22.81	40.00	22.76	40.00	21.77	40.00	21.69	40.00	22.60	40.00	21.66	40.00
H	40.00	23.22	40.00	22.87	40.00	22.64	40.00	22.60	40.00	22.62	40.00	22.65

Positive

Negative

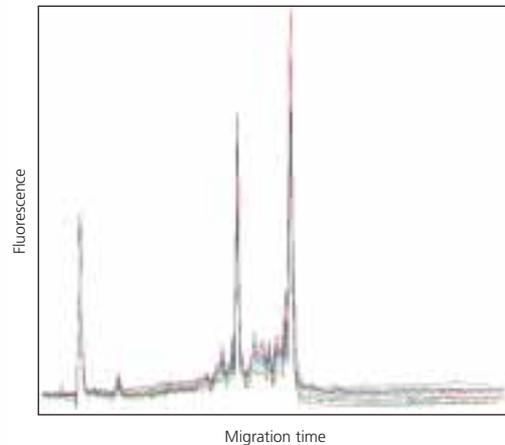
**Figure 1** A checkerboard pattern of positive (blood) and negative (buffer) samples was used. RNA was amplified using TaqMan® RT-PCR. No cross-contamination of negative samples was observed after 40 cycles of PCR.

## Consistent RNA yields



**Figure 2** RNA was analyzed using a formaldehyde agarose gel.

## Highly reproducible purification



**Figure 3** RNA was analyzed using the Agilent 2100 Bioanalyzer and the RNA 6000 Nano LabChip® Kit. Ten overlaid plots are shown.

## A wide range of applications

RNA purified using the PAXgene 96 Blood RNA Kit is ready for immediate use in a wide range of downstream applications, including RT-PCR, cDNA synthesis, quantitative RT-PCR (including TaqMan technology), expression-array and expression-chip analysis, poly A<sup>+</sup> RNA selection, and northern analysis.

## Ordering info

Product	Contents	Cat. no.
PAXgene 96 Blood RNA Kit (4)	For 4 x 96 RNA preps	762331

### Trademarks and disclaimers

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