

# Technical Note - RNA

## Automated Total RNA from Whole Blood, Cultured Cells and Tissues

AutoGen offers different levels of automation to serve every laboratory's needs based on workflows and budget. Our XTRACT 16+ automated workflow along with the triXact RNA Kit are optimized for isolating total RNA (including genomic, mitochondrial, and viral RNA), from the three most common sample types in diagnostics, research and forensics: cultured cells, a variety of tissues or whole blood samples.

- Quick, consistent and reproducible results.
- Convenient pre-filled and sealed cartridges.
- Minimal manual pipetting, complete automatic procedure from blood to cell lysis to elution.
- Isolate RNA from multiple sample types in the same run including whole blood, cultured cells and tissues
- Purified RNA to use in all downstream applications.

### Sample: 400µl Human Whole Blood

No.	Kit	Nanodrop ng/µl	A260/A280	A260/A230
1	Competitor Q	28.77	1.99	1.69
2		20.88	2.06	0.31
3		15.02	1.89	0.85
4	Competitor Z	21.36	1.97	1.82
5		23.32	1.98	1.48
6		25.50	1.71	1.26
7	XTRACT triXact RNA Kit	96.87	1.94	1.18
8		106.00	1.92	2.02
9		102.06	1.95	2.06
10	Competitor M	27.03	1.91	0.73
11		22.09	2.35	1.23
12		30.13	2.08	0.37

## AutoGen XTRACT 16+

Total automated workflow for whole blood, cultured cells or tissue RNA extraction with XTRACT 16+.

### Key Features

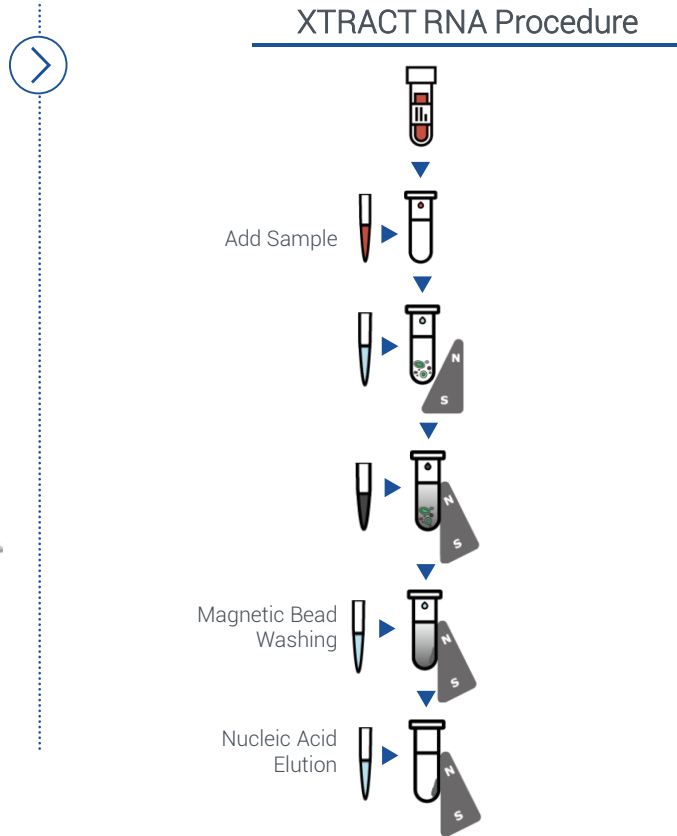
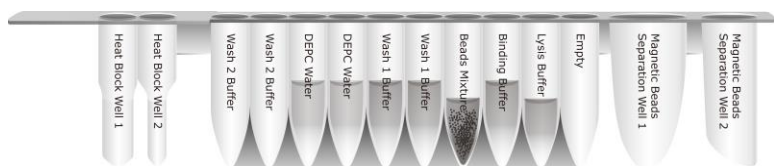
- Samples volumes up to 400µl blood,  $1 \times 10^6$  cultured cells or 30mg tissue
- Low-medium throughput, 1-16 samples / run
- Bar code reading / sample tracking
- LIMS compatibility
- High yield, high quality RNA



# Technical Note - RNA

## XTRACT 16+ Principle and Procedure

The XTRACT method uses a pre-filled cartridge containing proteinase K and chaotropic salt to lyse cells and degrade protein. RNA will bind to the cellulose coated magnetic beads. After washing off the contaminants, the purified RNA is eluted by low salt elution buffer. Using magnetic-particle technology to purify total RNA from whole blood, cultured cells or tissues, the purified RNA can be used directly for all downstream applications.



## Ordering Information and Kit Performance

PRODUCT #	PRODUCT NAME	SAMPLE SIZE	PROCESSING TIME
XK631-72	XTRACT triXact RNA Kit	400µl	48-81 minutes

*AutoGen's promise is to provide the most practical, economically effective solutions for your sample prep and automation extraction solution needs, and to do it with a level of service, support, and responsiveness that leads the industry.*