

Total RNA / cfRNA Extraction and Automation



MiniMax Cell-free RNA Isolation Kit



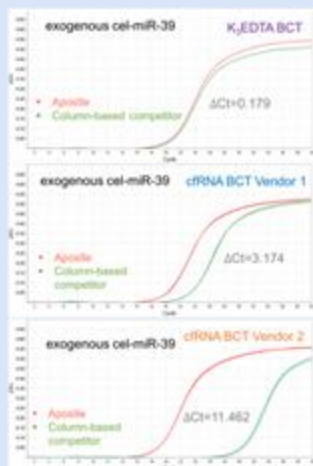
MiniMax Total RNA Isolation Kit



MagTouch 2000 system

- **Superior Isolation Efficiency** Isolates a wider range of cell-free RNA fragments (17nt - 1000nt)
- **Phenol & Chloroform-Free** Safe protocol eliminates exposure to hazardous chemicals
- **Broad Application Compatibility** Ideal for downstream applications like sequencing and PCR
- **Preserves RNA Integrity** Minimizing RNA degradation during storage
- **High-Throughput Ready** 50 preps per kit facilitate efficient processing of multiple samples

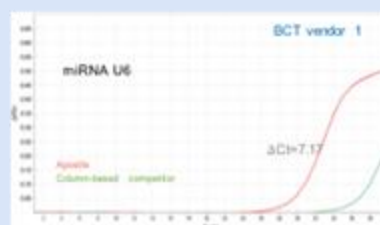
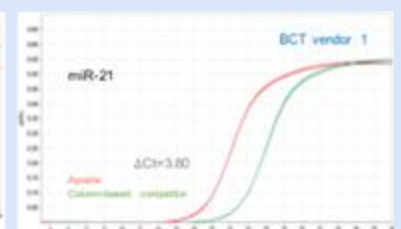
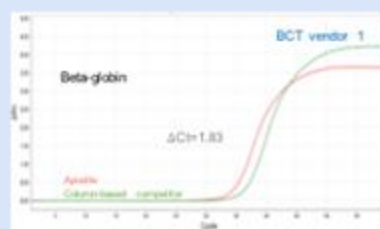
Product Information



1.1 to 2000 times higher (Left) exogenous RNA recovery rate than a column-based major alternative product.

3.5 to 480 times higher (Right) RNA recovery rate than a column-based major alternative product.

cfRNA was isolated from plasma using Apostle MiniMax™ High Efficiency cfRNA Isolation Kit (red) or a column-based major competitor (green).



Applications in Research and Development



Utilizing cfRNA signatures for early cancer detection

Wang, Jun, *et al.* "Terminal modifications independent cell-free RNA sequencing enables sensitive early cancer detection and classification." *Nature Communications* 15, (2024): 156.



Combining cfRNA with cfDNA for cancer diagnosis

Albitar, Maher, *et al.* "Combining cell-free RNA with cell-free DNA in liquid biopsy for hematologic and solid tumors." *Heliyon* 9, (2023): e16261.



Characterization of small noncoding RNA and miRNA profiles in hypertension

Wang, Jun, *et al.* "Comprehensive characterization of small noncoding RNA profiles in hypoxia-induced pulmonary hypertension (HPH) rat tissues." *iScience* 27.2 (2024): 108815.

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