Description
The MVP Total RNA product line, designed for maximum value and purity, passes extensive quality control ensuring that the total RNA is intact, full-length, virtually DNA-free, and pure. MVP Total RNA was isolated using a modified guanidinium thiocyanate method. Our RNA isolation method has been validated to co-purify both miRNA and rRNA and delivers RNA suitable for qRT-PCR. MVP total RNA is the ideal choice for many applications, including quantitative reverse transcriptase PCR (qRT-PCR), miRNA detection, Northern blot analysis, cDNA synthesis, RT-PCR, in vitro translation, ribonuclease protection assays, S1 nuclease analysis, and microarray target labeling. Human tissue was obtained using Institutional Review Board (IRB) protocols. Total RNA is provided in 0.1 mM EDTA, pH 8.0. The small amount of EDTA does not interfere with downstream enzymatic manipulations.

Note: To avoid any possible RNase contamination, always wear gloves when handling RNA.

Test Conditions
The quality of the RNA is assessed visually by observing distinct 28S and 18S ribosomal bands on a non-denaturing 1× MOPS gel. The purity of the RNA is assessed by spectrophotometry (A260/A280≥1.8). The RNA is shown to be free of contaminating RNases by incubation in a suitable buffer at 37°C. The RNA is further tested functionally by Northern analysis using a human β-actin probe and by RT-PCR.

Reference