



Quantitative polymerase chain reaction (qPCR) is a modification of the polymerase chain reaction used to rapidly measure the quantity of DNA, complimentary DNA or RNA present in a sample. Like other forms of polymerase chain reaction, the process is used to amplify DNA samples, via the temperature-mediated enzyme DNA Polymerase. The most sensitive quantification methods are done by the real-time polymerase chain reaction, where the amount of DNA is measured after each cycle of PCR by use of fluorescent markers. Other end-point methods measure DNA after PCR is completed. These methods depend on addition of a competitor RNA (for reverse-transcriptase PCR) or DNA in serial dilutions or co-amplification of an internal control to ensure that the amplification is stopped while in the exponential growth phase.

Rockland Immunochemicals produces a series of supporting reagents to facilitate qPCR and other PCR formats. Products offered for this purpose include:

Catalog Number	Product Description
MB-006	10X TE pH 7.5 (100 mM Tris HCl 10 mM EDTA) DEPC TREATED
MB-007	10X TE pH 8.0 (100 mM Tris HCl 10 mM EDTA) DEPC TREATED
MB-010-1000	Molecular Biology Grade UltraPure Water (1 x 1L)
MB-040	1X TE, pH 8.0 (10 mM Tris HCl, 1.0 mM EDTA) DEPC TREATED
MB-058	1X TES pH 7.8 (10 mM Tris HCl, 100 mM NaCl, 1 mM EDTA) DEPC TREATED
MB-102-0025	DNA (Calf Thymus) (Packaged 5 x 5 mg)
MB-103-0025	Salmon Sperm DNA Ready-to-Use Solution (Packaged 5 x 5 mg)
MB-113-0001	Ribonuclease A (Bovine Pancreas)
200-4161	Anti-DEOXYRIBONUCLEASE I (Bovine Pancreas) RABBIT
200-4188	Anti-RIBONUCLEASE A (Bovine Pancreas) RABBIT
S000-03	Peroxidase Conjugated STREPTAVIDIN
600-103-098	Peroxidase Conjugated Anti-BIOTIN (GOAT)