

Genomic DNA Removal Kit

Removal of contaminating genomic DNA from RNA

Description:

The presence of genomic DNA in RNA preparations is often a significant problem for downstream applications. This contamination often leads to false-positive signals and misrepresentation of gene expression levels. gDNA Removal Kit from GeneON removes gDNA from RNA prior to reverse transcription. The Removal Kit is based on the recombinant heat labile dsDNase, which is irreversibly inactivated at moderate temperatures.

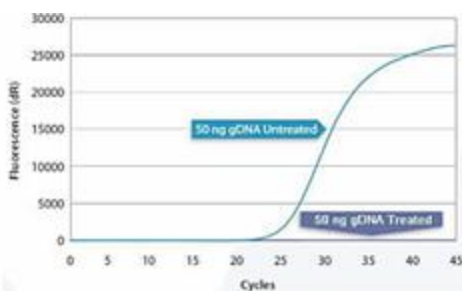
After that inactivation step which is gentle enough to preserve both quality and quantity of all present RNA.

Reverse Transcription can be performed in the same tube, thereby minimizing pipetting steps and reducing hands-on time.

Shipping: shipped on blue ice

Storage: store at -20°C, avoid frequent freeze / thaw cycles

Shelf Life: 16 months



gDNA Removal Kit removes at least 50 ng of gDNA in 10 µl reaction volume.

Complete removal of genomic DNA from RNA preps

Most techniques used for RNA isolation yield RNA with significant amounts of contaminating genomic DNA (gDNA), potentially resulting in false and inaccurate mRNA quantification. This is particularly a problem in the quantification of low-copy transcripts or small samples. The gDNA Removal Kit efficiently removes gDNA from RNA preps to levels below the detection limit of RT-qPCR (Figure).

Content:

- gDNA Remover reagent: (red cap) - Heat-inactivatable dsDNase
- 10x Reaction Buffer: (green cap)

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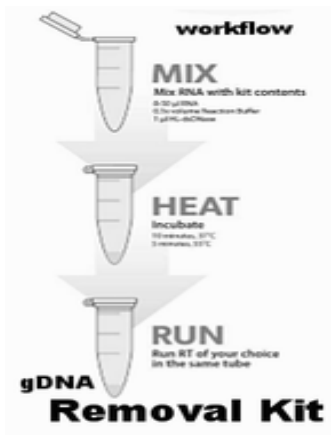
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Protocol

Perform the assay set-up as following:

Component	10 μ l assay	20 μ l assay	50 μ l assay
10x Reaction Buffer	1 μ l	2 μ l	5 μ l
gDNA Remover	1 μ l	1 μ l	1 μ l
your RNA preparation	8 μ l	17 μ l	44 μ l



Incubation time:

- 10 min @ 37°C or 20 min at 25°C
- 5 min @ 58°C for inactivation of the enzyme

The [reverse transcription reagents](#) can be directly added to the tube containing the purified RNA sample, after completion of DNase treatment,

Ordering information:

Cat.-no	Description	Amount
105-120	gDNA Removal Kit	50 preps
105-125	gDNA Removal Kit	5x50 preps

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