

Your good-as-Gold solution for eliminating dsRNA from IVT RNA samples

Min-Immune™ Gold dsRNA Removal

Product Intro

Removal of double-stranded RNA (dsRNA) from *in vitro* transcribed (IVT) RNA is essential for reducing the immunogenic response to mRNA in cells. Other methods for removing dsRNA, such as reverse-phase HPLC, hydroxyapatite chromatography and cellulose chromatography, are associated with high capital costs and reduction in desired single-stranded RNA (ssRNA) yield. The Min-Immune™ Gold dsRNA Removal Kit provides an easy-to-use, scalable, enzymatic solution for removing dsRNA without impacting IVT ssRNA yield.

Benefits

- **Versatile:** Suitable for most RNA samples, regardless of length, end modifications, or NTP content.
- **Highly specific:** Eliminates dsRNA to <0.005% (LLOQ) of sample.
- **Scalable:** Highly adaptable protocol for small-scale development or large-scale production needs.
- **Budget-friendly:** A cost-effective alternative to expensive chromatography columns.

Product Description

The [Min-Immune™ Gold dsRNA Removal Kit](#) provides a novel enzymatic solution for the removal of dsRNA contamination present in *in vitro* transcribed RNA or mRNA samples. RNA is treated with RNase III in a simple one-step, 60-minute reaction, quickly and easily removing dsRNA without requiring chromatographic equipment. The method is suitable for most RNA samples, providing consistent treatment of a range of RNA inputs without a reduction in single-stranded RNA yield. Each kit will treat 1.5 mg of IVT RNA or mRNA, with scalable reactions to support the needs of any phase of development.

Product Performance



Figure 1. A Min-Immune™ Gold dsRNA Removal Kit treated 1.4 kb pseudouridine (Ψ)-containing RNA sample was compared to an untreated sample (right panel) and dsRNA Standards (left panel). Triplicates of each sample and standard were immobilized on a charged nitrocellulose membrane, then immunoblotted with a primary dsRNA-specific antibody and a secondary antibody conjugated to horseradish peroxidase. dsRNA is reduced below the limit of quantification after treatment.

Ordering information

Catalog Number	Description
MGDR250125	Min-Immune™ Gold dsRNA Removal Kit (25 reactions)

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