Product Information:

Complete genomic DNA removal kit (Cat: DR-001)

Kit contains: Reagent-A (1ml), reagent-B (400ul); 10x digestion buffer (400ul); enzyme inactivation buffer (200ul);

Catalog: DR-001 Stored at -20ºC.

Size: 200 reactions *Research use only, not for diagnostic use.*

Description:

Complete genomic DNA removal kit contains a combination of nuclei acid enzymes and detergents that rapidly hydrolyze the entire genomic DNA, ds/ss-DNA, primer-dimers and oligos to mononucleotides, suitable for preparing DNA-free solutions (RNA solution, Taq DNA polymerase, PCR mastermix), used for PCR, RT-PCR, real-time PCR, Northern, microarray, RNA microinjection, RNA library construction, in vitro RNA synthesis and protein purification;

Benefits and features:

- In-tube digestions, no loss for your samples, no column involved for cleanup.

Protocol for the removal of genomic DNA contamination in RNA preparations

1. Mix 1ul of the **reagent**-A and 1ul of **10x digestion Buffer** to the 18ul of RNA solution (up to 300ng/ul). Gently mix by pipetting up and down.
2. Incubate reaction at 37 ºC for 15-30 minutes.
3. Add 1ul of **enzyme inactivation buffer** and incubate reaction at 65 ºC for 10 minutes.
4. Add 2ul of **reagent-B** into mixture. Incubate for 5 minutes at room temperature. Gently mix by pipetting up and down
5. Centrifuge 13,000 x *g* for 5 minute to pellet.
6. Transfer the supernatant (DNA-free RNA) to a new tube and discard the pellet (salts and enzymes).

The RNA is now ready to use for RT-PCR and other analysis.

Protocol for the removal of genomic DNA contamination in Taq DNA polymerase or PCR mastermix

1. Mix 5ul of the **reagent**-A and 2ul of **10x digestion Buffer** to the 50ul of 2x PCR mastermix or Taq DNA polymerase (up to 500U). Gently mix by pipetting up and down.
2. Incubate reaction at 37 ºC for 20-30 minutes.
3. Inactivate reaction at 95 ºC for 3 minutes.

The PCR mastermix or Taq DNA polymerase is now ready to use for PCR and other analysis.

Tech tips: Not use for DNase I footprinting or random fragment analysis since the entire genomic DNA is completely digested.

Precautions and Disclaimer:

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

Contact us,

Phone: 514-702 7702 Fax: 514-254 5356 Web: www.zmtechscience.com Email: order@zmtechscience.com (For ordering)