

FavorPrep™ DNase I Solution

Catalogue Number: FADI2093/FADI2094

Package:

Cat. No.	FADI2093 (800 U)	FADI2094 (1,600 U)
DNase I Enzyme (2,500 U/ml)	320 µl × 1	320 µl × 2
DNase I Reaction Buffer	1.5 ml × 2	6 ml

Applications: On-column & direct DNase I digestion

Product description

FavorPrep™ DNase I Solution is a kit contains concentrated DNase I enzyme and DNase I reaction buffer. The user able to easily prepare ready-to-use DNase I working solution through adding DNase I reaction buffer into DNase I enzyme vial. The DNase I solution is suitable for FavorPrep™ RNA extraction kit series and various downstream applications. FavorPrep™ DNase I solution provides a convenient operation process to remove residual DNA on the benchtop, additional incubator is not required. FavorPrep™ RNA extraction kit series match with FavorPrep™ DNase I solution will ensure to obtain high purity RNA without genomic DNA contamination.

Features

- ★ **Compatible:** Allow to apply in general DNase reaction and on-column DNase I digestion
- ★ **Rapid:** Available to remove residual genomic DNA at room temperature within 15 minutes.
- ★ **Convenience:** Easy to use with no need for an additional incubator.
- ★ **High Quality:** The purified RNA can be applied in: RT-PCR, Northern hybridization, and Micro-array assay.

Format/Principle: DNase I enzyme (2.5 U/µl) and DNase I reaction buffer.

Applications: General DNase I reaction and on-column DNase I digestion.

Operation Time: Within 15 minutes.

Shipping/Storage Conditions

Shipping at ambient temperature.

Store at -20°C for long-term storage.

Procedure

▲ Briefly spin-down the vials before operation.

For on-column DNase I digestion

1. Prepare working solution. Dilute DNase I enzyme (2.5 U/µl; 10x) with DNase I reaction buffer to the final concentration 0.25 U/µl (1x).

Caution: Mix gently by pipetting, do not vortex.

2. Apply 60 µl of 0.25 U/µl DNase I working solution to the membrane center of column.
3. Incubate on the bench top for 15 minutes.
4. Following the protocol of "Wash step" of Favorgen RNA kit.

Caution: Do not spin the column before wash buffer added.

For direct DNase I reaction

1. Setup 100 µl of DNase I reaction:

Components	Volume
Extracted RNA	<10 µg
DNase I enzyme	3 µl
DNase I reaction buffer	to 100 µl

2. Incubate RNA sample with DNase I working solution on the bench top for 15 minutes.
3. Following the RNA purification process.

Technical information:

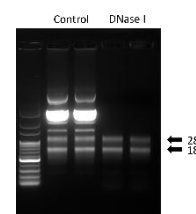


Figure 1. In the performance test, the guppy muscle tissue was applied into FavorPrep™ Tissue Total RNA Mini Kit (FATRK), and additional 5 µg of plasmid DNA was added, then co-extract to mimic DNA residue. The data indicates that FavorPrep™ DNase I solution complete remove DNA but not effect RNA quality at the on-column DNase I digestion.

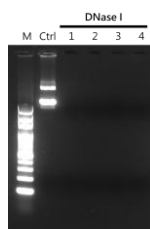


Figure 2. Quality control of FavorPrep™ DNase I solution. The 5 µg of plasmid DNA was applied into FavorPrep™ Tissue Total RNA Mini Kit (FATRK) with DNase I on-column digestion step, 60 µl (15U) of DNase I working solution was used.

Other Related Products

FADI2093 is suitable for use with the following kits:		
Product	Cat. No.	Size
FavorPrep™ Tissue Total RNA Extraction Micro Kit	FATR1013	50 preps
FavorPrep™ Tissue Total RNA Extraction Mini Kit	FATR1023	50 preps
FavorPrep™ Blood/Cultured Cells Total RNA Extraction Mini Kit	FABR1023	50 preps
FavorPrep™ Whole Blood RNA Extraction Mini Kit	FABR2023	50 preps
FavorPrep™ Plant Total RNA Extraction Mini Kit	FAPR1023	50 preps
FavorPrep™ RNA Clean Up Mini Kit	FARC1023	50 preps

FADI2094 is suitable for use with the following kits:		
Product	Cat. No.	Size
FavorPrep™ Tissue Total RNA Extraction Micro Kit	FATR1014	100 preps
FavorPrep™ Tissue Total RNA Extraction Mini Kit	FATR1024	100 preps
FavorPrep™ Blood/Cultured Cells Total RNA Extraction Mini Kit	FABR1024	100 preps
FavorPrep™ Whole Blood RNA Extraction Mini Kit	FABR2024	100 preps
FavorPrep™ Plant Total RNA Extraction Mini Kit	FAPR1024	100 preps
FavorPrep™ RNA Clean Up Mini Kit	FARC1024	100 preps