

June 2020

Supplementary Protocol

## Microbiome stabilization using the RNAprotect<sup>®</sup> Tissue Reagent

This protocol describes how to use the RNAprotect Tissue Reagent to stabilize the microbiome profile from soil and stool samples before DNA extraction.

**IMPORTANT:** Please consult the “Safety Information” and “Important Notes” sections in the *RNAprotect Handbook*, [www.qiagen.com/HB-2716](http://www.qiagen.com/HB-2716), before beginning this procedure. For safety information on the additional chemicals mentioned in this protocol, please consult the appropriate safety data sheets (SDSs), available from the product supplier.

### Equipment and reagents

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, consult the appropriate safety data sheets (SDSs), available from the product supplier.

- RNAprotect Tissue Reagent (cat. no. 76104 or 76106)
- PBS
- Stainless Steel Beads, 7 mm (200) (cat. no. 69990)

### Important point before starting

- RNAprotect Tissue Reagent may form a precipitate during storage below room temperature (15–25°C). Before using the reagent, redissolve the precipitate by heating to 37°C with agitation.

## Procedure

### To stabilize the sample

1. Add 4 volumes of RNAprotect Tissue Reagent to 1 volume of sample (e.g., for 500 mg sample, add 2 ml RNAprotect Tissue Reagent).
2. Add 3 stainless steel beads to the tube.
3. Mix until sample forms a slurry.

The sample is ready to be stored.

### To proceed with analysis

1. Add PBS in a volume 1.5 times greater than the volume of RNAprotect used (e.g., if 2 ml of RNAprotect was used, add 3 ml PBS).
2. Spin down for 20 min at 5000 x *g*. Remove the supernatant.
3. Use the pellet for DNA extraction.

## Document Revision History

Date	Changes
06/2020	Initial release

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

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