



# Human fecal sample collection (DNA)

Author: Gerold Bongers  
SOP: MTCP009  
Revision: 2  
Effective date: 5 Mar 2019

## 1 Abstract

---

The goal is to collect fecal samples in a manner that is suitable for nucleotide isolation and metagenomic sequencing using the OMNIgene GUT - OMR-200.100 collection method. DNA is stable in OMNIgene tube for a total of 60 days and can be freeze/thawed with compromising the DNA. The sample needs to be aliquoted before long term storage @ -80C.

## 2 Materials and equipment

---

### 2.1 Materials

- OMNIgene GUT [DNA Genotek, OMR-200.100]

### 2.2 Equipment

- Freezer (-80°C)

## 3 Safety precautions

---

### 3.1 Human specimen handling

Universal precautions should be followed when handling human samples considered potentially infectious. Minimal protective clothing requirements are lab coat, gloves and safety glasses.

### 3.2 Waste

Dispose of all waste as biohazardous material.

## 4 Method

### 4.1 Kit components





#	Description	Vendor	Catalog	Picture
1	Two toilet accessories	DNA genotek	OMNIgene GUT - OMR-200.100	
2	Barcoded collection device	DNA genotek	OMNIgene GUT - OMR-200.100	
3	Spatula	DNA genotek	OMNIgene GUT - OMR-200.100	
4	Biohazard specimen bag	DNA genotek	OMNIgene GUT - OMR-200.100	
5	Toilet accessory instructions	DNA genotek	OMNIgene GUT - OMR-200.100	
6	Sample collection instructions	DNA genotek	OMNIgene GUT - OMR-200.100	

Table 1. Kit components

### 4.2 Kit instructions

DNA genotek kit contains all required components and instruction for in-home sample collection (see Appendix 1 for details). Consider pre-scanning of barcoded collection device before shipment. Shipment instruction should be included if shipment by subject is required.

### 4.3 Storage

DNA is stable in OMNIgene tube for a total of 60 days at room temperature and can be freeze/thawed during this period without compromising the quality of the DNA. The sample needs to be aliquoted for long term storage at -80C.

## Appendix 1 – Stool collection instructions

---

# Stool collection instructions

Instruction for use of the toilet accessory.

This toilet accessory is used with OMNIgene®•GUT kit to facilitate collection of fecal samples.

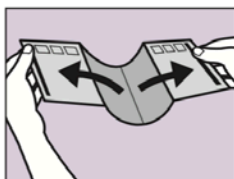
**Caution:** Do NOT allow toilet water, urine, detergent or fragrance to come in contact with this toilet accessory.

**Storage:** 15°C to 25°C

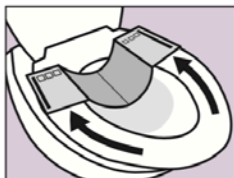
## Procedure:



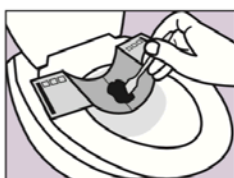
- 1** Two toilet accessories are provided in the event that you are unable to collect a sample on the first attempt.



- 2** Carefully peel open edge with ▲; repeat for edge with ■.



- 3** Attach adhesive surface of accessory to **BACK of toilet seat** with adhesive close to the outer edge of the seat and press firmly.

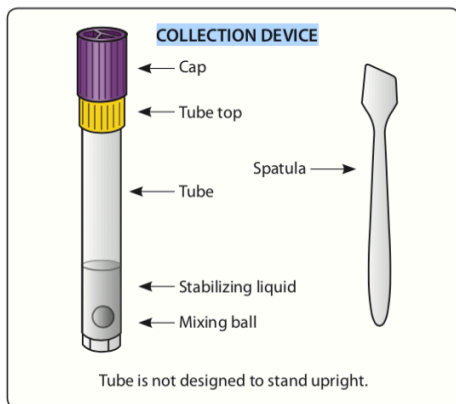


- 4** Collect fecal sample following OMNIgene•GUT user instructions.



- 5** Drop used accessory into toilet. Wait 1 minute for paper to become soft, then flush. Alternatively, discard in garbage.

Instruction for use OMNIGENE-GUT kit.



**Summary and explanation of the kit:**

OMNIGENE-GUT provides the materials and instructions for collecting and stabilizing microbial DNA from a fecal sample.

**Warnings and precautions:**

- FOR EXTERNAL USE ONLY.
- Do NOT remove the yellow tube top from the tube.
- Do NOT spill the stabilizing liquid in the tube.
- Wash with water if liquid comes in contact with eyes or skin. Do NOT ingest.
- If collecting a liquid fecal sample, see separately provided user instructions.
- Small items may pose a choking hazard.

**Storage:** 15°C to 25°C

Ship in accordance to applicable regulations covering transport of biological specimens. See MSDS at [www.dnagenotek.com](http://www.dnagenotek.com)

**Label legend:**

- Collect sample by (Use by)
- Catalog number
- Manufacturer
- 15°C to 25°C Storage instructions
- Caution, consult instructions for use
- Lot number

**USER INSTRUCTIONS**

**Read all instructions prior to collection**

**Procedure:**

- 1 IMPORTANT PREPARATIONS:**

  - Empty your bladder before beginning the collection.
  - Collect fecal sample free of urine or toilet water.
  - Toilet paper or tissues may be required.
- 2** While holding the yellow tube top, unscrew ONLY the purple cap from the kit and set aside for later use.

**IMPORTANT:** Do NOT remove the yellow tube top. Do NOT spill the stabilizing liquid in the tube.
- 3** Use the spatula to collect a small amount of fecal sample.

Actual size of fecal sample.
- 4** Transfer the fecal sample into the yellow tube top. Repeat until the sample fills the yellow tube top.

**IMPORTANT:** Do NOT push sample into the tube.
- 5** Scrape horizontally across the tube top to level the sample and remove any excess.

Wipe exterior of tube and top with toilet paper or tissue as needed.
- 6** Pick up the purple cap with the solid end facing down and screw onto the yellow tube top until tightly closed.
- 7** Shake the sealed tube as hard and fast as possible in a back and forth motion for a minimum of 30 seconds.
- 8** The fecal sample will be mixed with the stabilizing liquid in the tube; not all particles will dissolve.

**IMPORTANT:** Continue shaking if large particles remain as shown in Figure A.
- 9** Place spatula in original packaging or wrap in toilet paper and discard in garbage.

**IMPORTANT:** Send the sample for processing following the delivery instructions supplied separately by the kit provider.

Appendix 2 - Questionnaire

---

# Questionnaire