Collect and stabilize DNA for quantitative animal gut microbiome profile analysis

PERFORMAbiome™-GUT is an all-in-one system for easy collection and stabilization of microbial DNA from animal fecal samples.

- Rapidly homogenize and stabilize microbiome sample at the point-of-collection
- Transport and store stabilized DNA at ambient temperature for 60 days – no cold chain required
- Microbiome profile is protected through multiple freeze/thaw cycles
- Ensure microbiota profile accurately represent the in vivo state
- Standard sample input is ideal for manual or high-throughput, automated processing
- Obtain high quality DNA suitable for 16S rRNA microbiome profiling, shotgun metagenomic sequencing, qPCR and arrays
- Barcoded for full sample traceability

“The PB-200 tubes come with straightforward directions, are convenient to use, provide a sample size sufficient for several DNA extractions, and will be extremely useful for those who need to preserve samples collected in the field.”

Kelly Scott Swanson, Professor, Department of Animal Sciences and Division of Nutritional Sciences
University of Illinois at Urbana-Champaign
Benefits of PERFORMAbiome™-GUT

- Minimize bias introduced by microbial growth and DNA degradation
- Eliminate the costs associated with temperature controlled shipping
- Eliminate need for weighing and aliquot bias with a standard volumetric sample
- Maintain DNA integrity in typical ambient temperature fluctuations (e.g., -20°C to 50°C)
- Minimize noise in your data analysis with reliable microbiota profile

<table>
<thead>
<tr>
<th>Attribute</th>
<th>PERFORMAbiome™-GUT (PB-200)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample homogenization</td>
<td>✓</td>
</tr>
<tr>
<td>Sample collected per kit (median)</td>
<td>630 ± 120 mg</td>
</tr>
<tr>
<td>Shipping at ambient temperature</td>
<td>✓</td>
</tr>
<tr>
<td>Compatible with guanidinium based extraction kits</td>
<td>✓</td>
</tr>
<tr>
<td>Standardized format for high-throughput processing</td>
<td>✓</td>
</tr>
<tr>
<td>Number of extractions per kit (250 µL per extraction)</td>
<td>8</td>
</tr>
<tr>
<td>DNA yield per extraction (median)</td>
<td>1.66 ± 0.8 µg</td>
</tr>
<tr>
<td>High molecular weight DNA</td>
<td>✓</td>
</tr>
<tr>
<td>Microbiome profile stability at room temperature</td>
<td>60 days</td>
</tr>
<tr>
<td>Suitable for NGS downstream application</td>
<td>✓</td>
</tr>
<tr>
<td>Quantitative analysis were performed using canine fecal samples</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Product Specifications**

**Pre-use with packaging:**
- Dimensions: 17.6 cm x 10.3 cm
- Weight: 22.0 g
- Shelf-life: 18 months

**Post sample collection specifications**
- Tube diameter: 15.25 mm
- Tube height (with caps): 118.9 mm
- Tube height (without caps): 92.5 mm
- Cap diameter: 18 mm
- Storage conditions: 15°C–25°C
- Sample stability: 60 days

**PB-200 kit contents**

- Collector
- Spatula
- Packaging and instructions

Some DNA Genotek products may not be available in all geographic regions. PERFORMAbiome™ is a trademark of DNA Genotek Inc. All other brands and names contained herein are the property of their respective owners. Patent (www.dnagenotek.com/legalnotices)