The following protocol is a method for the liquefaction and decontamination of sputum samples using OMNigene®-SPUTUM.

**Note:** Some bacteria will remain viable in the OMNigene®-SPUTUM reagent.

### Intended use
OMNigene®-SPUTUM optimizing reagent is intended for liquefaction and decontamination of fresh or frozen sputum samples.

### Summary and explanation of reagent
OMNigene®-SPUTUM is a reagent that liquifies and decontaminates sputum samples.

### Quantity
OMNigene®-SPUTUM reagent is available in various volumes.

<table>
<thead>
<tr>
<th>Product</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM-SPD-CA-50</td>
<td>50 mL</td>
</tr>
<tr>
<td>OM-SPD-CA-250</td>
<td>250 mL</td>
</tr>
<tr>
<td>OM-SPD-CA-1000</td>
<td>1000 mL</td>
</tr>
</tbody>
</table>

### Warnings and precautions

#### For In Vitro Diagnostic Use
1. Clinical specimens should be considered infectious and handled with appropriate biosafety precautions and standards (follow local and/or federal regulations as appropriate).
   
   **Note:** Some bacteria will remain viable in the OMNigene®-SPUTUM reagent.

2. Do NOT use after the “Use by” date indicated on the bottle label.

### Storage
OMNigene®-SPUTUM should be stored at room temperature (15°C to 40°C).

### Safety information
Wash with water if reagent comes in contact with eyes or skin. Do NOT ingest.

Safety data sheet (SDS) is available at www.dnagenotek.com

### Specimen collection and handling

#### Protocol for collecting sputum with OMNigene®-SPUTUM reagent

**Reagents included**
- OMNigene®-SPUTUM

**Equipment supplied by user**
- Standard collection cup/tubes for sputum
- Pipettes and pipette tips

**Procedure**

<table>
<thead>
<tr>
<th>Collection steps</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>1. Collect sputum into standard collection cup or tube.</td>
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<tr>
<td>2. Visually estimate volume of sputum collected.</td>
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<tr>
<td>3. Add approximately an equal volume of OMNigene®-SPUTUM reagent.</td>
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<tr>
<td>4. Recap collection cup tightly.</td>
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<td>5. Invert specimen 20 times to mix.</td>
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<tr>
<td>6. Incubate specimen at room temperature (15°C-25°C) for a minimum of 30 minutes. Periodic mixing (by inversion or vortexing) will facilitate liquefaction.</td>
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</tbody>
</table>

Highly mucoid specimens may require longer hold times or the addition of NALC to ensure full liquefaction is achieved.

Samples may remain between 4°C and 40°C for up to 8 days before proceeding with the next step.
Protocol for specimen preparation

The following protocol is for the preparation of sputum samples in OMNIgene•SPUTUM optimizing reagent.

Equipment and reagent supplied by user

- Centrifuge that can accommodate 50 mL tubes and is capable of generating 3,800 × g
- 50 mL conical polypropylene tubes (e.g., Sarstedt #62.547.205)
- Sterile phosphate buffered saline (PBS) or sterile water
- Appropriate biosafety equipment and personal protective equipment as required by your institution and/or biosafety committee

Procedure

<table>
<thead>
<tr>
<th>Sample preparation steps</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Vortex for 15–20 seconds or invert 10–20 times to mix.</td>
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<tr>
<td>2. Spin OMNIgene•SPUTUM specimen at 3,000 - 3,800 × g for 20 minutes to obtain a sediment.</td>
<td>Transfer sample to a 50 mL conical tube if needed. If a compact sediment is not formed re-spin specimen at 3,800 × g.</td>
</tr>
<tr>
<td>3. Gently pour off supernatant into appropriate waste container without disturbing the sediment. Do NOT discard sediment.</td>
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<tr>
<td>4. Resuspend the sediment in sufficient volume of sterile phosphate buffered saline or sterile water.</td>
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</tbody>
</table>

Shipping

Note: Some bacteria will remain viable in OMNIgene•SPUTUM reagent.

Samples optimized using OMNIgene•SPUTUM reagent should be considered infectious/dangerous goods and travel as UN3373, Biological Substance, Category B.

Packaging and shipment of specimens in OMNIgene•SPUTUM reagent must be done in accordance with local regulations and/or IATA guidelines for the shipment of biohazardous/infectious specimens.

Disposal

Disposal of this product should comply with any local or regional regulations.

Technical support is available Monday to Friday (9h00 to 17h00 ET):

- Toll-free (North America): 1.866.813.6354, option 6
- All other countries: +1.613.723.5757, option 6
- Email: support@dnagenotek.com

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All DNA Genotek protocols, white papers and application notes are available in the support section of our website at www.dnagenotek.com.