When used properly, the SOS is an ideal collection tool. This swab has been tested and approved by Salimetrics for the collection of the biomarkers listed in the table below.

Collecting saliva samples with the use of the SOS device is simple. With instruction, research assistants or subjects can collect samples in a short period of time. Ideally, the SOS should be used with the swab storage tube (Part No. 5001.01). The SOS should be placed into the tube insert before distribution to subjects. If the storage tube is not used or centrifugation is not available, saliva from the swab may be expressed into a cryovial (Part No. 5002.01) using a needleless 5 or 10cc plastic syringe.

**Instructions for Use**

1. Remove SOS from tube leaving tube insert in place. Place into mouth as directed below. Keep in place for 1-2 minutes. (If collecting from the parotid glands in the cheek, saliva flow will be lower, and collection time should be extended for up to 5 minutes to ensure adequate volume.)

<table>
<thead>
<tr>
<th>Recommended SOS Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>cortisol, cotinine, testosterone</td>
</tr>
<tr>
<td>α-amylase* (with other analytes)</td>
</tr>
<tr>
<td>α-amylase* (alone)</td>
</tr>
<tr>
<td>SIgA†, CRP†</td>
</tr>
</tbody>
</table>

* Saliva from the parotid glands has higher concentrations of α-amylase than pooled whole saliva from under the tongue
†Concentrations may vary depending on location in the mouth. SIgA concentrations are also influenced by saliva flow rates. Contact Salimetrics for further details.

2. Return SOS into tube insert.
3. Replace cap and snap securely onto tube.
4. Label the exterior of the tube using computer-generated, bar-coded labels provided by Salimetrics, or waterproof pen. (Position label so that the barcode lies horizontally along the length of the swab storage tube.) *NOTE: Use labels recommended for freezing (cryolabels), not ordinary paper labels.*

5. If samples cannot be frozen immediately, refrigerate or keep cool using insulated container with ice packs. If swab storage box is used, place in storage box cap side up.

6. We recommend freezing the tube(s) at or below -20°C within 1-2 hours of collection. Freeze-thaw cycles should be minimized.

7. On the day samples are to be assayed, bring them to room temperature and then centrifuge them for 15 minutes at approximately 3,000 RPM (1500 x g). After centrifugation the tube insert and swab may be discarded, but keep the cap. Assays should be performed using only clear saliva, avoiding any sediment that may have accumulated (see note below).

8. Re-centrifuge tubes following each freeze-thaw cycle as additional precipitates may develop upon refreezing.

9. Store unused swabs in the closed zip-lock bag under dry conditions (30-60% humidity) at room temperature.

**Cautions:**
1. *Do not use this device for children under the age of 6.*
2. *SOS may cause temporary dryness of mucosal membrane, oral cavity.*
3. *Contact us for test subject preparation at customerservice@salimetrics.com*
4. *Use each swab only once.*
5. *Use only as directed.*
6. *Investigators using saliva samples collected with the SOS device for other biomarkers do so at their own risk.*

*Note: The SOS is made from an inert material which should theoretically pose no problem to specimens stored frozen in the device. Nevertheless, studies of long-term storage at temperatures at or below -20 degrees C beyond twelve months have yet to be concluded. Therefore, we recommend that the specimen be removed from the SOS by centrifugation or compression before long-term storage.*

**References**


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