IN SALIVA
VERITAS

GBO Saliva Collection System from Greiner Bio-One
GBO Saliva Collection System for the COLLECTION of SALIVA SAMPLES from both adults and young persons for ORAL FLUID TESTING.
IN SALIVA VERITAS

Oral Fluid Testing

DRUGS OF ABUSE

PERIODONTITIS

DNA – LIFESTYLE
(Nutrigenetics e.g. Lactose intolerance)

ORAL CANCER
(HPV, cancer metabolites, RNA)
DRUGS OF ABUSE

- Clinical drug testing
- Workplace drug testing
- Legal medicine - prisons
- Roadside testing
- Antidoping agencies
IN SALIVA VERITAS

GBO Saliva Collection System

The first system on a liquid basis:

GBO Saliva Collection System (SCS)
Collection within 3 minutes: 1-2-3

INSTRUCTIONS

For the complete handling recommendation please refer to the Instructions for Use for each product on www.gbo.com.
Collection within 3 minutes: 1-2-3

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1. Oral Fluid Collection
   Rinse oral cavity 2 MIN with SALIVA EXTRACTION SOLUTION N°1

2. Saliva Collection Beaker
   Unscrew SALIVA COLLECTION BEAKER N°2 and spit in entire contents of mouth.

3. Transfer
   Screw lid gently back onto beaker 2, remove safety sticker and take SALIVA TRANSFER TUBE N°3 and push down onto the opening. Tube will fill by itself.
STORAGE OF SAMPLES
Depending on the analytes

+20 to +25°C
storage 1 day - 20 days

+4°C
storage 1 week - 3 weeks

-20°C
storage for months

CENTRIFUGATION
Saliva Transfer Tubes containing saliva samples should be centrifuged for 10 MIN at 2200g.
For the determination of the saliva content in the collected sample:

**SALIVA QUANTIFICATION KIT**

**5 CALIBRATORS**
with defined saliva content: 11, 27, 46, 66 and 85 U/mL

correspond to 11 – 85 volume percentage of saliva

**2 CONTROLS:**
30 U/mL and 70 U/mL
The yellow food dye tartrazine, which is part of calibrators, controls and collected samples, enables to determine the content PHOTOMETRICALLY.

Using the calibration line, the saliva content (U/ml) in the sample is calculated using the linear regression formula.

Calibration and Saliva Quantity Determination

\[ \text{Extinction cal} = \text{Ex} 450 \text{ nm} - \text{Ex} 520 \text{ nm} \]
Amount (%) of oral fluid important for re-calculation of the analytes:

*e.g. Cocaine, cut off 10 ng/mL*

<table>
<thead>
<tr>
<th>COCAINE MEASURED</th>
<th>% OF ORAL FLUID IN SAMPLE</th>
<th>COCAINE IN 1 ML ORAL FLUID</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 ng</td>
<td>58 %</td>
<td>8,6 ng</td>
</tr>
<tr>
<td></td>
<td></td>
<td>negative</td>
</tr>
<tr>
<td>5 ng</td>
<td>45 %</td>
<td>11,1 ng</td>
</tr>
<tr>
<td></td>
<td></td>
<td>positive</td>
</tr>
</tbody>
</table>
Simple, safe, fast.

BENEFITS
IN SALIVA VERITAS

Benefits

**NO TIME DELAY** caused by dry mouth (fixed sampling time of 2 minutes)

pH 4.2 of the saliva extraction solution **STABILIZES ANY PARENT DRUG AND METABOLITE** immediately

**NO SAMPLE ADULTERATION** by pressing or sucking on the carrier material – no loss of analytes

Internal standard (Tartrazine) enables **DONOR SPECIFIC QUANTIFICATION**

**WHOLE RINSING SAMPLE** can be collected
Benefits

pH stays ACIDIC (pH ~5.5)
6AM, Cocaine, Z-substances …

No detergents and no ion-suppression on MASS SPECTROSCOPY INSTRUMENTS

IMMEDIATE SAMPLE SPLITTING in two or more sample containers

SAMPLE ADULTERATION EASILY DETERMINED by measurement of Amylase (EIA) and Cortisol (MS)

FILL VOLUME IS READABLE – no sucked pads have influence
IN SALIVA VERITAS

Benefits

EASY PROCESS INTEGRATION and short turn-around time

STANDARDISED TUBES for all racks and analyzers

CLOSED SYSTEM for hygiene and sample integrity

Analysis can be conducted FROM THE ORIGINAL SAMPLE CONTAINER

Clearly arranged STORAGE, AUTOMATION also possible
IN SALIVA VERITAS

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PERIODONTITIS

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IN SALIVA VERITAS

- **HUMAN GENES** *(SNP)*
  e.g. Lactose intolerance

- **ORAL CANCER** *(HEAD & NECK CANCER)*
  Human or cancer cell DNA, mRNA and cancer metabolites

- **PERIODONTITIS**
  periodontitis associated pathogenic bacterias: ParoCheck®

- **CLINICAL DIAGNOSTIC OF INFECTIONS**
  direct detection of viral pathogens e.g. HSV I/II or VZV-DNA

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**MOLECULAR DIAGNOSTIC (PCR)**

Detection of DNA und RNA with molecular biological methods
The system is made up of various components.
GBO Saliva Collection System

- For self collection (single packed) Item N° 881001

- For professional use Item N° 881002
  50 Sets with all components in bulk
  GBO Saliva Extraction Solution
  GBO Saliva Collection Beaker
  GBO Saliva Transfer Tubes

- For professional use
  GBO Saliva Extraction Solution Item N° 881112
  GBO Saliva Collection Beaker Item N° 881210
  GBO Saliva Transfer Tubes Item N° 881113
  (with sleeves)
  or GBO Saliva Transfer Tubes Item N° 881117
  (without sleeves)
GBO Saliva Quantification Kit

- For professional use in laboratories
  Item N° 881010
QUALITY AS SOLID BASIS
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We use a carefully designed multi-level quality assurance system.

- Production locations: ISO 9001 and ISO 13485 certified
- Products are CE certified
YOUR POWER FOR HEALTH