



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** 



# **Oral Fluid Testing**

## DRUGS OF ABUSE

## **PERIODONTITIS**

### DNA - LIFESTYLE

(Nutrigenetics e.g. Lactose intolerance)

## **ORAL CANCER**

(HPV, cancer metabolites, RNA)





# DRUGS OF ABUSE



- Workplace drug testing
- Legal medicine prisons
- Roadside testing
- Antidoping agencies





# **GBO Saliva Collection System**

The first system on a liquid basis:

**GBO Saliva Collection System (SCS)** 











Collection within 3 minutes: 1-2-3

# **INSTRUCTIONS**





# Collection within 3 minutes: 1-2-3

For the complete handling recommendation please refer to the Instructions for Use for each product on www.gbo.com.







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 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

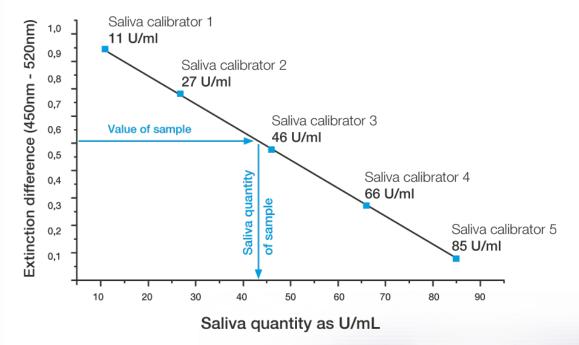


greiner bio-one

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 Extinction cal = Ex 450 nm - Ex 520 nm







Amount (%) of oral fluid important for re-calculation of the analytes:

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

COCAINE MEASURED	% OF ORAL FLUID IN SAMPLE	COCAINE IN 1 ML ORAL FLUID
5 ng	58 %	8,6 ng
		negative
5 ng	45 %	11,1 ng
		positive







Simple, safe, fast.

# **BENEFITS**



## **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





## **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





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## • 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

# MOLECULAR DIAGNOSTIC (PCR)

Detection of DNA und RNA with molecular biological methods





The system is made up of various components.

# PRODUCT OVERVIEW



# **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





# QUALITY AS SOLID BASIS

We use a carefully designed multilevel quality assurance system.

- Production locations:
   ISO 9001 and ISO 13485
   certified
- Products are CE certified



# YOUR POWER FOR HEALTH

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