

# in saliva veritas for Drug detection

The detection of narcotics, e.g. cocaine, amphetamines, cannabis etc., and psychotropic substances is becoming increasingly important for various reasons. The window of detection for narcotics and psychotropic substances in saliva is comparable with blood, and depending on the method with urine, conclusions can be drawn on current drug consumption. Standard enzyme immunoassays as well as instrumental analysis methods can be used.

## Advantages of the system during collection

### Advantages in comparison to pads

- No time delay caused by dry mouth
- A single collection from the whole oral cavity
- No absorption of analytes
- Determination of biomarker ( $\alpha$ -Amylase, Cortisol) possible
- Sample adulteration by pressing or sucking on the carrier material is not possible
- Internal standard (Tartrazine) enables donor-specific quantification

### Advantages compared to urine

- Easier determination of some drugs compared to urine
- Analysis of parent drugs
- Basic and neutral drugs will be stabilized in the acidic Oral fluid/Saliva Extraction Solution sample
- pH gradient between blood and oral fluid will be kept
- Additional consumption of drugs can be determined
- Detection windows for some drugs are equivalent to urine



**For the first time, standardization of saliva preanalytics is ensured**

## Advantages for analysis

- Uncomplicated process integration and short turn-around time in the lab
- Closed system for hygiene and sample integrity
- Analysis can be conducted from the original sample container
- Sufficient sample volume for A and B sample splitting
- Donor-specific determination of oral fluid within the sample on various photometers
- No detergents which disturb the analysis

# Saliva Quantification Kit

The food colouring tartrazine (internal standard) is the basis that is **photometrically** determined (450 – 520nm) in the calibrators, controls and collected saliva samples.

The calibrators guarantee the quantitative and donor specific determination of the saliva quantity in the sample. Finally, the saliva quantity in the sample is calculated. This core principle of the unique saliva collection system is an important prerequisite for correct quantity determination of analytes.



## 5 Calibrators

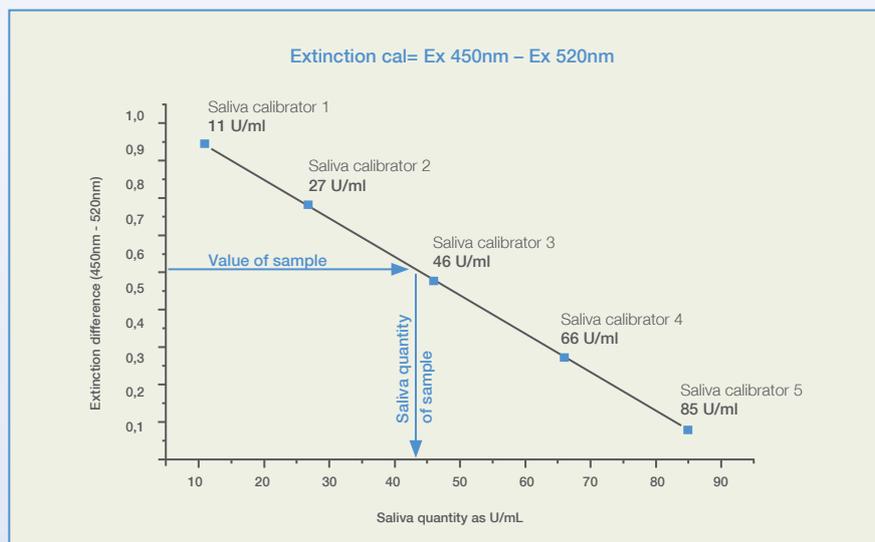
- 1 Calibrator 1: 11 U/ml
- 2 Calibrator 2: 27 U/ml
- 3 Calibrator 3: 46 U/ml
- 4 Calibrator 4: 66 U/ml
- 5 Calibrator 5: 85 U/ml

means a saliva quantity of 11 – 85% by volume

## 2 Controls

- 6 30 U/ml
- 7 70 U/ml

## Calibration and Saliva Quantity Determination



## Product Overview

| Item n° | Description                   | Packaging |
|---------|-------------------------------|-----------|
| 881010  | GBO Saliva Quantification Kit | 1 pc.     |

\*Tartrazine is permitted by the EU/FDA (directive 94/36/EC) for use as food colourant and can be found in various concentrations in cheese, spices, ice cream etc.