

# Customer Information

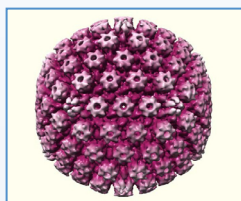
## Application of Saliva Collection System

### Oral Fluid is a Filtrate from Blood and reflects the unbounded free concentrations of analytes

#### Hormones and Enzymes

Determination of steroid hormones, e.g. cortisol, DHEA, DHEAS, estradiol, progesterone, testosterone as well as biogenic amines as melatonin from saliva can give information on a person's current hormones status. The easy, stress-free sample collection as well as the fact that saliva only reproduces the free (biological active) hormone concentration, is a particular advantage.  $\alpha$ -amylase is also used for authentication of saliva.

Current studies:  
Dr. Reinhard Raggam - Stress parameter: Cortisol and  $\alpha$ -amylase in saliva  
Dr. Rausch-Fan: Histamin and serotonin in saliva as a diagnostic tool for periodontitis



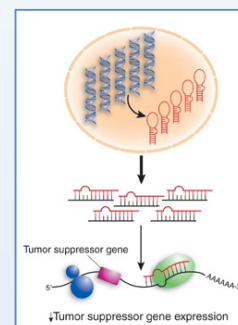
#### Infectious Disease Diagnostics

The direct detection of viral or bacterial pathogens e.g. Herpes simplex, Varicella Zoster or Hepatitis C viruses are new screening opportunities

Publication:  
Dr. Reinhard Raggam and Prof. Dr. Harald Kessler: "Reliable Detection and Quantification of Viral Nucleic Acids in Oral Fluid: Liquid Phase-Based Sample Collection in Conjunction with Automated and Standardized Molecular Assays" (J. Med. Virol. 80:16841688, 2008)

#### Tumour Diagnostics

Today's molecularbiological techniques allow the detection of nucleic acids from different matrices. DNA and RNA prove to be extremely stable when collected and preserved using the Greiner Bio-One Saliva Collection System. This makes it possible to diagnose - amongst others - oral cancer, at an early stage.



#### Drug Detection

The detection of narcotics, e.g. cocaine, amphetamines, cannabis, cotinine etc., and psychotropic substances is becoming increasingly important for various reasons (workplace drug testing, prisons,...). The results are comparable with blood and conclusions can be drawn on current drug consumption.

Current studies:  
SALCOL D3 - Evaluation of a new saliva collections system for drug screening (350 participants)  
SALCOL D5 - Drug Screening in Saliva and Urine - Application of the Greiner Bio-One Saliva Collection System for Drug-of-Abuse Testing (1500 participants)  
Cotinine - Cotinine Testing in Oral Fluid (176 participants)  
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Microgenics, Thermo Fisher