

Salivette®

Hygienic saliva collection for diagnostics and monitoring



Saliva as a sample material

With the rising diagnostic importance of analytes with rhythmically changing value (e.g. hormones or drugs) it is necessary to easily obtain high quality diagnostic samples.

Several research studies have determined that saliva is effective and useful as a sample material.

The Salivette® provides an optimal method for hygienic collection of saliva. Patients can very easily and independently collect the sample material for daily profiles at home without professional medical assistance.

For saliva collection, the Salivette® is available with different swab options: a plain cotton swab, a cotton swab with citric acid preparation to stimulate salivation, and a synthetic swab specially designed for cortisol determination.

Salivette® – Instructions for use



The patient removes the swab from the Salivette® (see Figs. 1 and 2)...

...and places the swab in the mouth and chews it for about 60 seconds to stimulate salivation (see Fig. 3).

Now the patient returns the swab with the absorbed saliva to the Salivette® (see Fig. 4)...



...and replaces the stopper (see Fig. 5).

Centrifugation for 2 minutes at 1,000 x g yields a clear saliva sample in the conical tube (see Fig. 6)

Particles and mucus strands are collected in the specially designed extended tip of the Salivette® tube (see Fig. 7).

The closed insert containing the swab is then hygienically disposed. The saliva recovered can now be used for analysis (see Fig. 8).

Its crucial clinical significance makes cortisol one of the most important analytes that can be determined from saliva².

The **Salivette® Cortisol** (Art. No. 51.1534.500) is specially designed for cortisol determination from saliva.

The **blue screw cap** visibly distinguishes the Salivette® Cortisol from the other swab versions.

The printed label provides sufficient writing space for important patient information and collection time.

The Salivette® Cortisol is designed to achieve precise analytical values from **small volumes** and samples with **very low cortisol levels**.

The cortisol recovery rate in the Salivette® Cortisol is proven to be almost 100 %, regardless of the cortisol concentration, the saliva volume or the measuring method applied.

Moreover, the dimensionally stable and **biocompatible synthetic swab** stands out for its superior absorption quality and virtually complete saliva recovery under the recommended centrifugation conditions.

A high saliva recovery rate after centrifugation is an important precondition for reliable analysis of even the smallest saliva volumes. Generally, a sample volume of just 50 µl or less is sufficient for cortisol determination. The average saliva volume usually recovered from adults is 1.1 ± 0.3 ml.



A detailed Evaluation Report is available on request.



Note:

Except for cortisol analysis using the Salivette® Cortisol, the suitability of the Salivettes must always be tested prior to routine determination of saliva analytes.

References

¹ Please find below a selection of reviews (refer to corresponding references):

Vining RF, McGinley RA: Hormones in Saliva, *CRC Crit Rev in Clin Lab Sci* **1986**, 23, 95-146.

Haeckel R, Hänecke P: Application of Saliva for Drug Monitoring - An In Vivo Model for Transmembrane Transport, *Eur J Clin Chem Clin Biochem* **1996**, 34, 171-191.

Kaufmann E, Lamster IB: The Diagnostic Applications of Saliva - A Review, *Crit Rev Oral Biol Med* **2002**, 13, 197-212.

Hodinka RL, Nagashunmugam T, Malamud D: Detection of Human Immunodeficiency Virus Antibodies in Oral Fluids, *Clin Diagn Lab Immun* **1998**, 5, 419-426.

² Kirschbaum C, Hellhammer DH: Salivary Cortisol in Psychoneuroendocrine Research: Recent Developments and Applications, *Psychoneuroendocrinology* **1994**, 19, 313-333.

Hellhammer J, Fries E, Buss C, Engert V, Tuch A, Rutenberg D, Hellhammer D: Effects of Soy Lecithin Phosphatidic Acid and Phosphatidylserine Complex (PAS) on the Endocrine and Psychological Responses to Mental Stress, *Stress* **2004**, 7, 119-126.

Hellhammer J, Hellhammer D: Ein neuer Weg in der Stressdiagnostik: Neuropattern, in: Stubbe H, Follmann W (Hrsg.): Interventionen in der Angewandten Psychologie, Shaker Verlag Aachen, **2004**, S. 19-26.

Ordering information

Order No.	Ø / Length in mm	Description	Packaging
51.1534	97 / 16.8	Cotton swab w/o preparation	100 / bag; 500 / case
51.1534.001	97 / 16.8	Cotton swab with citric acid preparation	100 / bag; 500 / case
NEW 51.1534.500	97 / 16.8	Cortisol-Salivette®	100 / inner case; 500 / case

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