

A hygienic perspective: Dräger DrugTest® 5000 and Dräger DrugCheck® 3000

Dräger's DrugTest 5000 and DrugCheck 3000 drug detection systems provide users with reliable support in the detection of drugs in oral fluid. Both systems are extremely easy to use and, thanks to their design and functionality, offer a high level of hygiene not only for the user but also for the person being tested. However, there are some general hygiene rules which should be observed.



Saliva - many people are afraid of contact because this liquid is said to contain many pathogens. In fact, in most cases, this liquid is less dangerous than you think because it contains all sorts of substances which act against bacteria. The enzyme lysozyme is able to cleave wall components of bacteria, and peroxidase has non-specific antibacterial and antiviral properties. The antibody immunoglobulin A (IgA), also contained in oral fluid, can also hold off pathogens.

However, saliva, or better oral fluid, is of course a body fluid and as such a potential transmission medium. Even if oral fluid is considered to be non-infectious for virus types such as HIV, there are other pathogens which can be transmitted, in particular, by droplet infection and can then infect other people (e.g. flu).

This information sheet contains general and specific information on the hygienic use of Dräger's drug detection systems.

Test Kits

Dräger DrugTest® 5000 & Dräger Drug Check® 3000

General

The following general instructions must be observed:

- Open the foil pouch only immediately before use to prevent contamination of the sampler. Do not use the test kits if the foil pouch is damaged.

- The mouthpieces of both test systems are protected after unpacking from the foil pouch: the sampler of the DrugTest 5000 Test Kit is enclosed in a protective cap, which should only be removed immediately before the kit is used. If the oral fluid is not analyzed immediately after the sample has been taken, the protective cap can be placed back onto the sample holder until the analysis is carried out at a later time.
In regards to the DrugCheck 3000, the sampler's mouthpiece is recessed in the rear part of the kit and thus protected against contamination. The sampler should also be removed just before use.
- Do not touch the samplers with bare hands before and after sampling.
- It is advisable to wear disposable gloves (e.g. latex, nitrile) when handling Dräger drug detection systems and all body fluid samples. If several tests are carried out with different people, new gloves should be used.



Cross-contamination: tested Person A to tested Person B

Both the Dräger DrugTest 5000 test kits and the kits of the Dräger Check 3000 are designed for single use. It is therefore not possible to transfer oral fluid from one tested person to the next.

Cross-contamination: tested Person to User

The mouthpieces of both test kits are attached to an extra long handle, so that a safe, hygienic distance can be maintained between the hands of the operator and the tested person. The sampling itself is carried out with both systems by wiping the sampler back and forth in the oral cavity, the oral fluid sample being collected gently and efficiently.

With the DrugTest 5000, the hygienic sampling is additionally supported by the rigid attachment of the sampler to the body of the kit, so that the user can hold the entire kit to this cassette body when collecting samples; it is therefore almost impossible to come into contact with the oral fluid of the person to be tested.



When collecting samples with the DrugCheck 3000, an additional spacer on the sampler serves to further shield the hand of the person collecting it and to avoid direct contact to lips and used mouthpiece of the sampler.



After sampling, the sampler is plugged into the test kit and locked in place. In this way the collected sample disappears inside the test kit and is protected from the environment for the time of the analysis and also afterwards.

After use, the test kits of both the Dräger DrugTest 5000 and the Dräger Drug Check 3000 can be disposed of with household waste in the form in which they are after the analysis without any further measures.

Analyzer

Dräger DrugTest® 5000

The analysis with the Dräger DrugTest 5000 Analyzer proceeds without any further contact between the user and the sample. When the Dräger DrugTest 5000 is used normally, the analyzer does not come into direct contact with the sample material at any time during the analysis process. The system is designed in such a way that, after the kit has been inserted into the analyzer, the collected oral fluid sample is completely encapsulated in the kit and the analysis is carried out using a contactless optical system.

After the analysis, the test kit, meanwhile closed from above by the attached buffer cartridge, can be removed without further treatment. The sample is completely contained in this complex; this prevents contamination of the analyzer and the user with oral fluid.

To clean the DrugTest 5000 Analyzer, wipe the outer surfaces of the unit with a damp, soft cloth that has been dipped in a mild soap solution or a commercial laboratory detergent (e.g. isopropanol). Cleaning the inside of the unit by the user is not permitted.

Additional

Furthermore, the best protection is offered when one takes strict care to comply with all hygiene measures.

More information on this topic can be found at: <https://www.who.int/infection-prevention/en/>.