

# Tracing of Contamination Hot-Spots



- For the tracing of DNA contamination hot-spots in molecular biology labs and the regular monitoring of the lab work area
- Convenient and easy-to-use sample collection system
- Optimized DNA extraction system for the efficient detection of the smallest amounts of contaminant DNA
- A lyophilized and ready-to-use contamination-free PCR master mix

# SwabUp™ Lab Monitoring Kits

## Background

Small amounts of amplicon or target DNA contaminations could lead to PCR artifacts and false positive results. Originating from aerosolized fragments in centrifuges, pipettes and other lab equipment or from small splatters during working with open reaction tubes, contaminant DNA is very hard to remove and can lead to cross contaminations between samples. A single DNA molecule can be detected in the amplification process leading to widespread problems throughout the testing procedure and interpretation of results. Unfortunately, DNA

contaminations can occur occasionally even in experienced labs and will go unnoticed unless detected in PCR.

SwabUp™ Lab Monitoring Kits were designed to facilitate the tracing of DNA contamination hot-spots in molecular biology labs in order to efficiently eliminate them and prevent future occurrence.

## Features

### Convenient and Easy to Use

SwabUp™ Lab Monitoring Kits are very easy to use. Collection swab applicators are packaged individually in sealed plastic peel-pouches, have excellent absorption ability, and a molded breakpoint in the shaft of the applicator, which facilitates easy breakage of the swab applicator after collecting the sample.

### DNA Extraction System

Optimized for the efficient detection of the smallest amounts of contaminant DNA.

### Contamination-Free PCR System

In severe cases of DNA contaminations, where every single reagent used for PCR could potentially be contaminated leading to false positive and inaccurate PCR results, it is extremely difficult to trace the contamination source. In SwabUp™ Lab Monitoring Plus kit, we introduce the contamination-free SwabUp™ DNAmix, a universal PCR master mix, which contains all PCR core components, ready-to-go. Only reaction-specific primers and template DNA are added by the user.

## Recommended Use

SwabUp™ Lab Monitoring Kits are recommended for the regular monitoring of the lab work area and detection of target or amplicon DNA contaminations. Lab monitoring should be performed in regular time intervals, where samples are collected from surfaces and/or equipment,

which are easily exposed to target and amplicon DNA contaminations, e.g., centrifuge, pipettes, reaction tube racks, doorknobs, lab books, computer keyboard, computer mouse, touchpad, desktops and any surface of a molecular lab work area.

# SwabUp™ Lab Monitoring

### Content

Separately packed swabs, Collection Buffer tubes, spin column-based DNA extraction system.

### Shelf life and storage

DNA extraction system should be stored at room temperature, Collection Buffer tubes must be stored at 2 – 8 °C. Swabs can be stored at 2 – 30 °C.

### Required consumables

Ethanol (> 96 % abs.), 1.5 ml reaction tubes

### Required lab equipment

Microcentrifuge, heat block, pipetting equipment



# SwabUp™ Lab Monitoring Plus

### Content

Separately packed swabs, Collection Buffer tubes, spin column-based DNA extraction system, SwabUp™ DNAmix, Rehydration Buffer, MgCl<sub>2</sub>

### Shelf life and storage

DNA extraction system should be stored at room temperature, Collection Buffer tubes must be stored at 2 – 8 °C. Swabs can be stored at 2 – 30 °C. SwabUp™ DNAmix should be stored at 2 – 8 °C, and after rehydration at < -18 °C.

### Required consumables

Ethanol (> 96 % abs.), 1.5 ml reaction tubes, PCR tubes

### Required lab equipment

Microcentrifuge, heat block, pipetting equipment, PCR thermocycler



## Ordering Information

|                             |                  |                                     |
|-----------------------------|------------------|-------------------------------------|
| SwabUp™ Lab Monitoring      | Cat.No. 181-0010 | 10 applications                     |
|                             | Cat.No. 181-0050 | 50 applications                     |
| SwabUp™ Lab Monitoring Plus | Cat.No. 182-0010 | 10 applications (25 PCR reactions)  |
|                             | Cat.No. 182-0050 | 50 applications (125 PCR reactions) |

## How to order

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