



***Intended Purpose:***

Suitable for the simultaneous isolation of viral, bacterial, and human DNA / RNA.

**Sample Types:**

- Nasopharyngeal / oropharyngeal swabs

Compatible with KingFisher™ Flex and Auto-Pure 96.

Purified nucleic acids are suitable for real-time PCR and real-time PCR with reverse transcription.

The kit contains reagents for 96 extractions.

***Target Group and Scope:***

The kit is intended exclusively for *in vitro* use by trained personnel in accordance with GLP guidelines (Good Laboratory Practice).

Designed for the simultaneous isolation of viral, bacterial, and human DNA / RNA.

***The Principle:***

The Magnetic DNA/RNA Auto Extraction Kit (Form P1) is based on guanidinium thiocyanate cell lysis, followed by binding of nucleic acids to magnetic beads, subsequent washing steps, and final elution of purified nucleic acids.

***Performance Characteristics:***

Expected genomic DNA / RNA yield may vary depending on sample quality.

Extraction efficiency is at least 85 %.

**Old or degraded samples:**

- Store samples properly.
- Use fresh samples.

**Degraded DNA / RNA:**

- Avoid repeated freeze–thaw cycles.
- Use fresh nucleic acids immediately or aliquot them.
- Follow recommended storage conditions (as described in the protocol).
- Store samples and reagents at appropriate temperatures.

***Test Procedure:***

**1. Preparation**

- Check lysis buffer for precipitation



- Prepare Deep-Well plates
- Add samples
- Add kit components

## 2. DNA / RNA Extraction – Automated Systems (KingFisher™, Auto-Pure 96)

- Create protocol
- Prepare the instrument
- Start the program

### *Safety Information:*

#### Hazard Statements



Wash solution (WS)



Lysis buffer (LB MBS), Washing solution (WS)



Lysis buffer (LB MBS)

### *Shelf Life and Storage:*

- Shelf life: 24 months.
- Kit expiry date: indicated on the box label.
- Component expiry dates: indicated on each component label.

### *Storage:*

- Store in original packaging at + 2 to + 25 °C.
- Keep dry and protected from direct sunlight.
- Keep away from incompatible substances.
- Store in a well-ventilated, cool area.

For more information, please refer to the Instructions for Use (IFU) and Safety Data Sheets (MSDS)