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|  | <p align="center"><b>Formblatt (FB 05-11)</b><br/> <b>Product Information Sheet</b><br/> Magnetic DNA/RNA Auto Extraction Kit,<br/> REF: 80-08</p> | <p align="center">Anlage zu Kapitel 5<br/> Versions-Nr. 01</p> | <p align="center">Seite 1</p> |
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*Intended Purpose:*

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

*Sample Types:*

- saliva, urine
- swabs (nasopharyngeal, oropharyngeal and urogenital)

Compatible with KingFisher™ Flex, Auto-Pure 96, and Zixpress® 32/64

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 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:*

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

|                                                                                                           |                                                                                                                        |                                        |         |
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|  <b>ASTRA</b><br>BIOTECH | <b>Formblatt (FB 05-11)</b><br><b>Product Information Sheet</b><br>Magnetic DNA/RNA Auto Extraction Kit,<br>REF: 80-08 | Anlage zu Kapitel 5<br>Versions-Nr. 01 | Seite 2 |
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- Prepare Deep-Well plates
- Add samples
- Add kit components

## 2. DNA / RNA Extraction – Automated Systems (KingFisher™, Auto-Pure 96, Zixpress® 32/64)

- Create protocol
- Prepare the instrument
- Start the program

## 3. Manual Extraction

- Preheat heating block
- Lysis (incubate at 65 °C)
- Pellet formation (2.5 min at 5500 rpm)
- Washing (4 min)
- Drying (5 min in the heating block)
- Elution

### *Safety Information*

#### Hazard Statements



Lysis buffer (LB)



Washing solution (WS)



Lysis buffer (LB) and Washing solution (WS)

### *Shelf Life and Storage:*

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

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*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)