

 ASTRA BIOTECH	Formblatt (FB 05-11) Product Information Sheet Magnetic Plus DNA/RNA Auto Extraction Kit, REF: 80-09	Anlage zu Kapitel 5 Versions-Nr. 01	Seite 1
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Version: 01_2026

Intended Purpose:

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

Sample Types:

- Nasopharyngeal, oropharyngeal, and buccal swabs
- Plasma, whole blood
- Dried blood spots (DBS)
- Urine
- Leukocyte fractions
- mucous membranes of the urogenital tract (urethra, cervical canal and vagina)
- saliva
- bronchial lavage (bronchoalveolar lavage)
- cerebrospinal fluid, fecal matter, amniotic fluid, cell cultures

Compatible with KingFisher™ Flex, Auto-Pure 96, and Zixpress® 32/64. Purified nucleic acids are suitable for real-time PCR and RT-PCR.

The kit contains reagents for 96 extractions.

Target Group and Scope:

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

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

Test Principle:

The Magnetic Plus DNA/RNA Auto Extraction Kit is based on principle of guanidine thiocyanate cell lysis and subsequent sorption of nucleic acids on surface of magnetic beads, followed by washing steps and elution of purified nucleic acids.

Performance:

Expected 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.

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- Use fresh nucleic acids immediately or aliquot them.
- Follow recommended storage conditions.
- Store samples and reagents at appropriate temperatures.

Test Procedure:

1. Preparation

- Homogenize lysis buffer
- Preparation of Deep-Well plates
- Sample addition
- Kit components addition

2. Automated DNA / RNA Extraction (KingFisher™, Zixpress®)

- Create protocol
- Prepare instrument
- Start program

follow instrument instruction for use.

3. Manual Extraction

- Preheat heating block
- Lysis at 75 °C
- Pellet formation (3 min at 8000 rpm)
- Washing steps
- Drying (4 min on magnetic stand)
- Elution

Safety Information:

Hazard Statements



Lysis buffer (LB MBS)



Lysis buffer (LB MBS), Wash solution (WS1, WS2)



Wash solution (WS1, WS2)

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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)