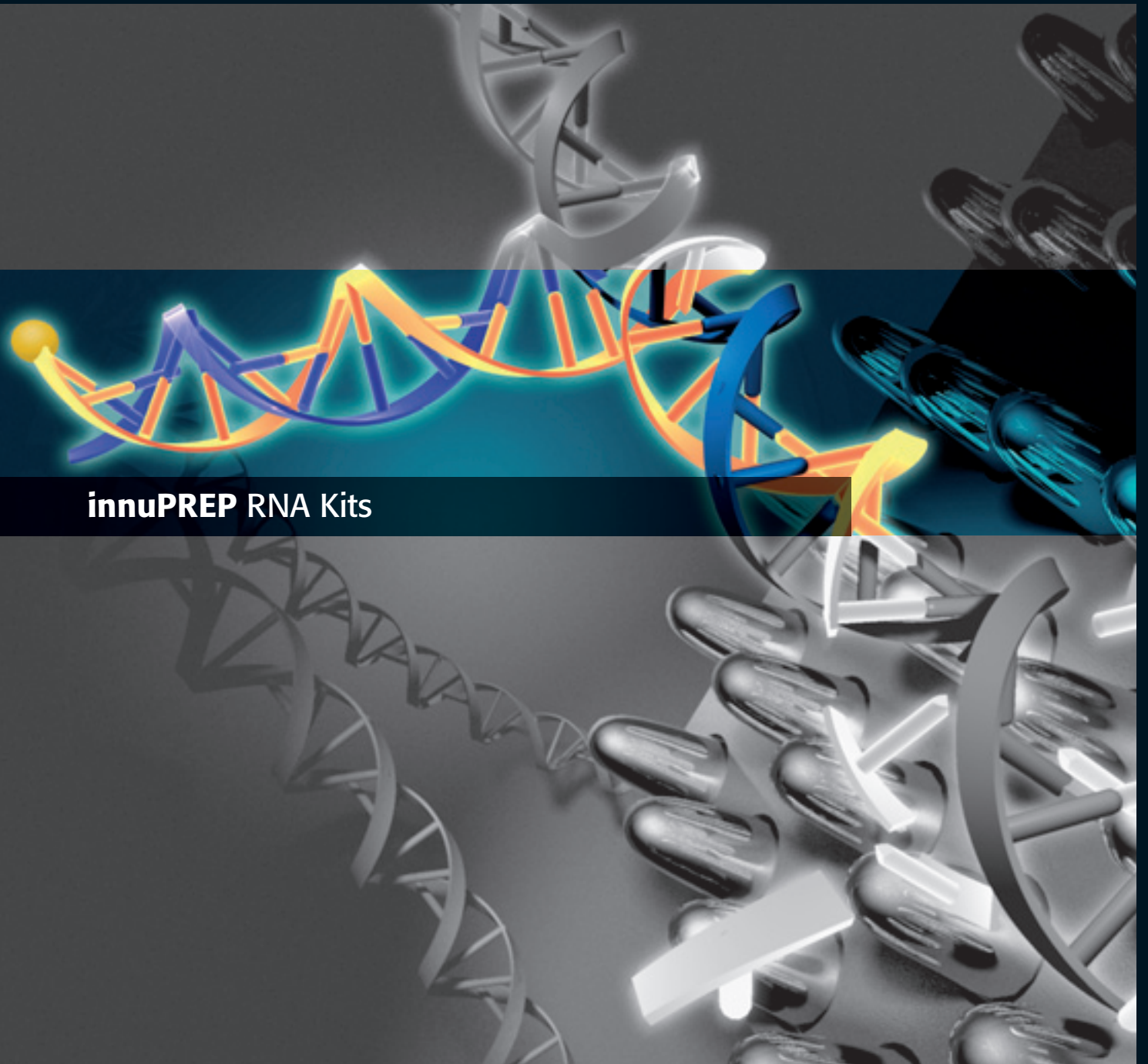


# Life Science unlimited

Innovative Nucleic Acid Technologies



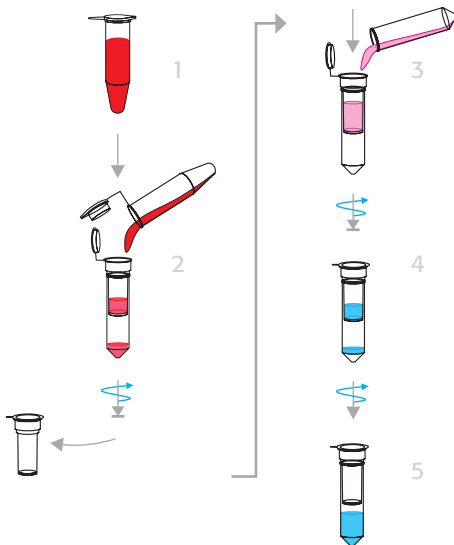
**innuPREP** RNA Kits

# innuPREP RNA Kits

All innuPREP RNA Kits are based on an optimised and new kind of lysis buffer, which enables an efficient lysis of different types of starting materials and the inactivation of RNases. After lysis of starting material the genomic DNA will be selectively removed by binding on a first spin filter. No DNase digestion is necessary. After the removing of genomic DNA, RNA will be bound on a second spin filter and washing steps eliminates all contaminants. The total RNA is eluted in RNase-free water and ready for further downstream applications. All innuPREP RNA kits are free of handling with toxic  $\beta$ -Mercaptoethanol. The extraction procedure is fast and easy and provides an excellent quality of isolated RNA.

## General Principle

Homogenisation/Lysis of sample – Selective removing of gDNA –  
 Selective binding of RNA – Wash – Elute



## innuPREP RNA Mini Kit

Product for isolation of total RNA from eucaryotic cells, tissue and bacteria.

### Starting material

- eucaryotic cells (max.  $5 \times 10^6$ )
- tissue sample
- gram+ or gram- bacteria

### Time for isolation

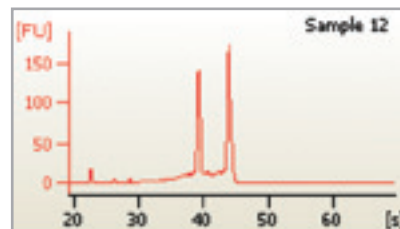
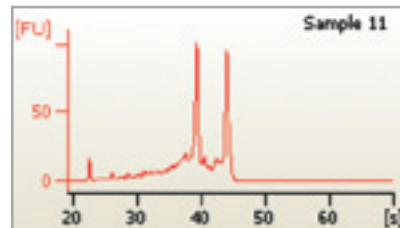
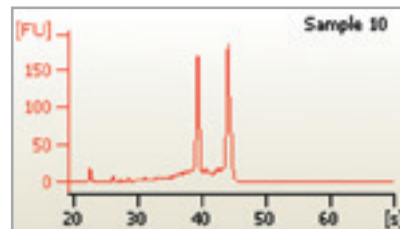
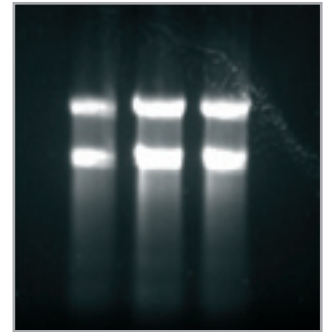
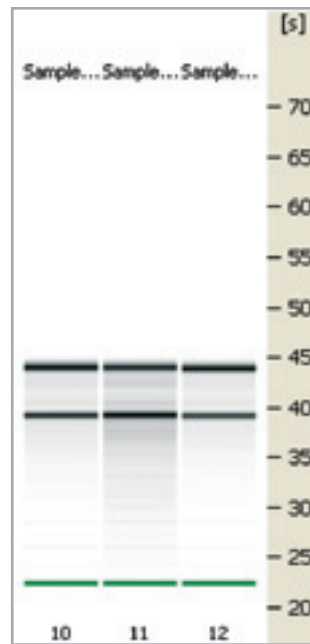
Approximately 15 – 40 minutes

### Typical yield

Depends on kind and amount of starting material; binding capacity approximately 100  $\mu$ g RNA

**Ratio  $A_{260} : A_{280}$**   
 1.7–2.0

## Analysis of the extracted RNA on denaturing formaldehyde gel and on Bioanalyzer



Isolation of total RNA from bacteria pellets (*Listeria*). The bacteria pellets have been pretreated with Lysozyme. After initial lysis with Lysozyme the RNA has been extracted with RNA Mini Kit.

## innuPREP Blood RNA Kit

Product for isolation of total RNA from whole blood.

### Starting material

■ whole blood 0.5 ml – 1.0 ml

### Time for isolation

Approximately 45 minutes

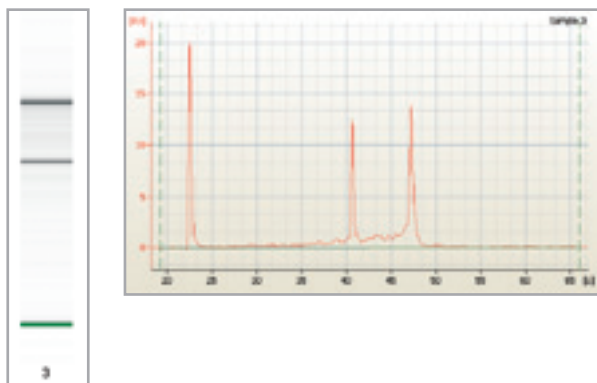
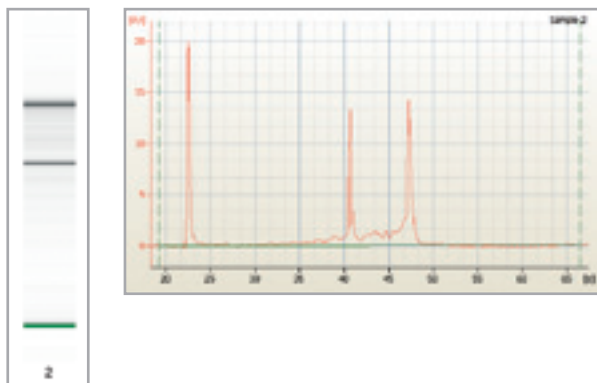
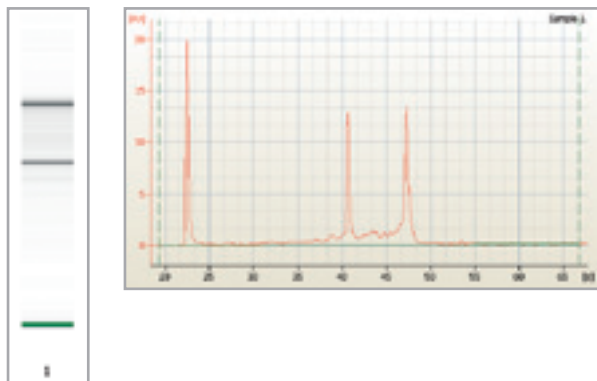
### Typical yield

Depends on kind and amount of whole blood; 1 – 8 µg

### Ratio $A_{260} : A_{280}$

1.7 – 2.0

Isolation of total RNA from 1.0 ml of whole blood sample and subsequent analysis of extracted RNA on Bioanalyzer. The analysis shows pure RNA, free of gDNA and without degradation.



## innuPREP Plant RNA Kit

Product for isolation of total RNA from plant material.

### Starting material

■ different kinds of plant material

### Time for isolation

Approximately 30 minutes after homogenisation

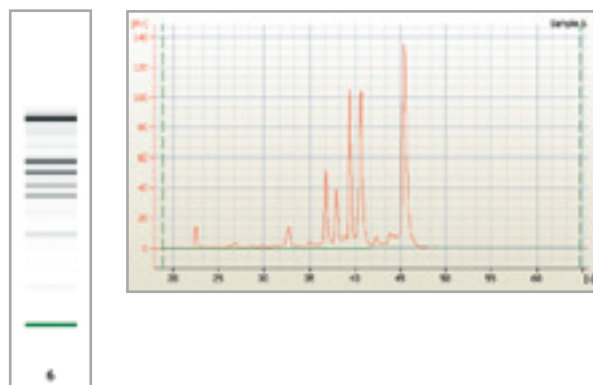
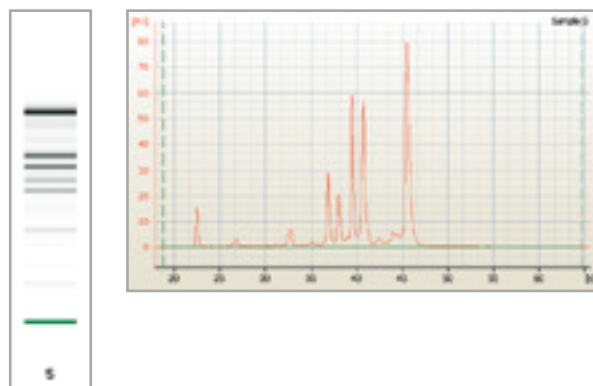
### Typical yield

Depends on kind and amount of starting material; binding capacity approximately 100 µg RNA

### Ratio $A_{260} : A_{280}$

1.7 – 2.0

Isolation of total RNA from 50 mg of plant material (plant leaves) and subsequent analysis of extracted RNA on Bioanalyzer. The analysis shows pure RNA, free of gDNA and without degradation, with intact ribosomal RNA.



Catalog number	Product
845-KS-2040010	innuPREP RNA Mini Kit (10)
845-KS-2040050	innuPREP RNA Mini Kit (50)
845-KS-2040250	innuPREP RNA Mini Kit (250)
845-KS-2010010	innuPREP Blood RNA Kit (10)
845-KS-2010050	innuPREP Blood RNA Kit (50)
845-KS-2010250	innuPREP Blood RNA Kit (250)
845-KS-2060010	innuPREP Plant RNA Kit (10)
845-KS-2060050	innuPREP Plant RNA Kit (50)
845-KS-2060250	innuPREP Plant RNA Kit (250)