



| Product Information | |
|----------------------------------|--------------|
| Extracta Plus RNA, 10 rxn | |
| Part Number | 95214-010 |
| Number of Reactions | 10 Reactions |
| Storage Temperature | 15°C to 25°C |
| Lot Number | 172041003 |

Product Description:

The Extracta Plus RNA kits offer rapid purification of Total RNA from animal cells or tissues. The Extracta Plus Spin column workflow enables simultaneous processing of multiple samples in just 25 mins to yield purified total RNA suitable for a range of downstream applications such as next generation sequencing, RT-(q)PCR, cDNA synthesis and microarrays. The kit includes specially designed Extracta Plus DNA removal columns for effective removal of genomic DNA contamination, providing a convenient solution for applications that are sensitive to low amounts of DNA contamination such as RT-qPCR.

Component Part Numbers:

| | | |
|---------|----------------------------------|-------|
| 1124037 | Buffer EPRL | 6 ml |
| 1124040 | Buffer EPRW1 | 7 ml |
| 1124043 | Buffer EPRW2 | 3 ml |
| 1124046 | RNase-free Water | 10 ml |
| 1124014 | Extracta Plus Spin Column | 10 pc |
| 1124048 | Extracta Plus DNA Removal Column | 10 pc |
| 1124050 | CollectionTubes 1.5ml | 10 pc |
| 1124016 | CollectionTubes 2ml | 10 pc |

| Product Specifications | |
|------------------------|------------------|
| 95214-010 | |
| Assay | Functional Assay |
| Result | Pass |

Quality Control Analysis and Specifications:

Membrane control

The RNA-binding capacity was tested by determining the recovery obtained with 122 - 138 µg of input total carrier RNA on the membrane of the Spin Column. Greater than 80% recovery was obtained.

Pass

As tested by PCR, no PCR inhibitors were released from the membrane.

Pass

Limitations of Use

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Buffers

Conductivity and pH of buffers and solutions were tested and were within the ranges below:

| | Conductivity (mS/cm) | pH | |
|------------------|-------------------------------|-------------|------|
| Buffer EPRL | 23.95 – 29.07 (1/10 dilution) | 6.70 – 7.20 | Pass |
| Buffer EPRW1 | 29.02 – 33.75 (1/2 dilution) | 7.30 – 7.70 | Pass |
| Buffer EPRW2 | 3.19 – 3.83 | 7.30 – 7.70 | Pass |
| RNase-free water | ≤ 0.005 | – | Pass |

Functional absence of RNase was checked for RNase-free water and Buffer EPRW2. Pass

Extracta Plus DNA Removal Column

Extracta Plus DNA Removal Columns were functionally tested for DNA binding capacity. Pass

Extracta Plus Spin Column

Extracta Plus Spin Columns were tested by preparation of total RNA from human cells and from 3 mg of tissue.

Average yields and purities obtained were:

| | | |
|--------------------------------------|-----------------------|------|
| Human cells: | ≥ 75 µg total RNA | Pass |
| Kidney: | ≥ 6 µg total RNA | Pass |
| A ₂₆₀ /A ₂₈₀ : | 1.9 – 2.3 (at pH 7.5) | Pass |

Integrity and size distribution of total RNA was checked by denaturing agarose gel electrophoresis and ethidium bromide staining. Two sharp 28S and 18S ribosomal RNA bands appeared on the stained gel without any smear towards the smaller sized RNAs. Pass

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