



## UltraClean<sup>®</sup> Microbial RNA Isolation Kit

For isolation of total RNA from microorganisms

### Description

The UltraClean<sup>®</sup> Microbial RNA Isolation Kit is designed to yield up to 60 µg of high-quality RNA from pure cultures of microorganisms in 35 minutes. Based on a bead beating technology, cells are lysed, RNA is captured on a silica spin filter, washed and eluted in a certified RNase-free elution buffer, ready for reverse transcription and RT-PCR. This kit includes all required RNase-free tubes and reagents ready-to-use. Requires our Vortex Adapter for maximum efficiency. This kit does not require organic solvents and is considered safer than TRIZOL<sup>®</sup>- based protocols.

### Features

- Isolates total RNA from microbial cells in 35 minutes
- Yields up to 60 µg high quality RNA for RT and RT-PCR.
- Complete kit includes all required RNase-free tubes and ready to use reagents
- Ideal for gram + and gram - bacteria, yeast, fungi and bacterial spores



### Storage Conditions

Store Solution MR2 at 4°C. Store other components at room temperature for up to 2 years.

### Specifications

<b>Format</b>	Silica Spin Filter Tubes
<b>Method</b>	Bead Beating
<b>Binding Capacity</b>	Up to 60 µg per filter
<b>Throughput</b>	1 - 24 samples
<b>Time</b>	35 minutes

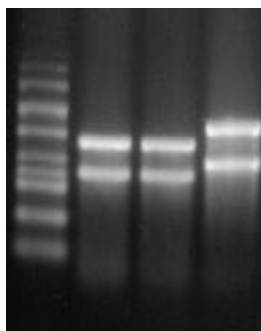
#### Microorganisms tested with UltraClean Kit

- |                        |                        |
|------------------------|------------------------|
| • <i>B. subtilis</i>   | • <i>S. aureus</i>     |
| • <i>B. pumulis</i>    | • <i>L. casei</i>      |
| • <i>E. coli</i>       | • <i>A. niger</i>      |
| • <i>E. faecalis</i>   | • <i>C. albicans</i>   |
| • <i>P. aeruginosa</i> | • <i>S. cerevisiae</i> |
| • <i>M. luteus</i>     |                        |



## Research and Development

### High Quality Total RNA from Bacteria and Yeast



1 2 3 4

Total RNA was isolated from various microorganisms and displayed on a 1% formaldehyde/MOPS agarose gel.

Lane 1: RNA Ladder

Lane 2: *E. faecalis* (23S & 16S)

Lane 3: *B. subtilis* (23S & 16S)

Lane 4: *C. albicans* (28S & 18S)

## Kit Components

Component	15800-50	15800-250
Solution MR1	1 x 16 ml	1 x 80 ml
Solution MR2	1 x 850 µl	1 x 4 ml
Solution MR3	1 x 28 ml	1 x 130 ml
Solution MR4	1 x 15 ml	1 x 65 ml
Solution MR5	1 x 32 ml	3 x 33 ml
Bead Tubes	50	250
RNase free Water	1 x 5 ml	1 x 15 ml
Spin Filters In Tubes	50	250
Collection Tubes	200	1000