



## ROTI®Nucleic Acid-free eXtra

1312

### Ready-to-use

**Gentle and non-hazardous solution for removal of nucleic acid contaminations from surfaces**

### I. Introduction

ROTI®Nucleic Acid-free eXtra is a very gently and highly efficient solution that has been designed as nonhazardous alternative to our top-selling ROTI®Nucleic Acid-free.

The ready-to-use solution or spray may be used for fast elimination of all kinds of contaminating nucleic acids (e.g. gDNA, amplicons, plasmids, RNA) from surfaces without the need to handle dangerous liquids. By incubation or by wiping, laboratory benches, heating blocks, thermal cyclers, pipettor shafts, reaction tubes etc. can easily be cleaned.

ROTI®Nucleic Acid-free eXtra is suitable for use on a broad variety of materials for instance glass, ceramic, plastic, rubber, steel and precious metal, with the exception of light or non-ferrous metals. Contamination with foreign DNA or RNA, which may heavily interfere with sensitive assays like PCR, reverse transcription or sequencing, is hence efficiently eliminated.

### II. Application

*Wiping* (table surface, thermal cycler etc.)

1. Apply undiluted ROTI®Nucleic Acid-free eXtra to the surface that is to be cleaned.  
In case 1312.4 is used, spray onto the surface until it is completely wetted. In case a standard bottle is used, pour the solution and disperse it using a paper towel or equivalents.
2. Incubate for approx. 1 min.
3. Wipe the surface covered with ROTI®Nucleic Acid-free eXtra with clean wipes and rub down.
4. Rinse surface with pure, DNA-free water and rub down.

For coated or sensitive surfaces, we recommend to spot test prior to use in order to avoid damage or discoloration.

Contamination of pipettes may even occur while using filtered tips. For decontamination, follow manufacturer's instructions and remove the shaft from the pipette. Remove seals and gaskets from the shaft. Soak the shaft for 1 minute in denaX uncolored, rinse thoroughly with clean water, dry and reassemble.

*Incubation* (reaction tubes, glass ware etc.)

In most cases, incubation for 1 min. is sufficient for removal of contaminations of nucleic acids. In those cases requiring longer incubation, follow this protocol:

1. Place items for cleaning into undiluted ROTI®Nucleic Acid-free eXtra. All items should be completely covered by the solution.
2. Incubate at room temperature over night.
3. Rinse with nucleic acid-free water and rub down or let dry. Items made of alcohol-resistant material may additionally be rinsed with 70 % ethanol and left to air dry.

*Please note:* Light or non-ferrous metals may not be incubated in ROTI®Nucleic Acid-free eXtra. For stainless steel surfaces, we recommend testing the compatibility in an inconspicuous place before use.

### III. Storage and stability

ROTI®Nucleic Acid-free eXtra is heat resistant and stable for at least 12 months at room temperature. At lower temperatures a precipitate might occur which can be resolved easily at 37°C.

### IV. Additionally Recommended Reagents

#### Nucleic acid free water:

Water ROTIPURAN®, highly pure water for sample preparation in organic trace analysis. Optical absorption at 254 nm:  $\leq 0.005$  Art. No. HN57  
Water, sterile, pyrogen-free, hypotonic, acc. to regs. of the Ph. Eur. for *Aqua purificata* Art. No. 3255  
Water, DEPC-treated, sterile and autoclaved, for molecular biology Art. No. T143

#### Paper wipes:

ROTIZELL®-Tissue-Wipes Art. No. 0087

#### ROTI®Nucleic Acid-free eXtra

Bottle (500 ml)	<b>1312.1</b>
Spray (500 ml)	<b>1312.4</b>
1 Litre replacement solution	<b>1312.2</b>
2.5 Litre replacement solution	<b>1312.3</b>

#### Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5 • 76185 Karlsruhe  
 P.O. Box 100121 • 76231 Karlsruhe  
 Phone: +49 (0) 721/ 5606-0  
 Fax: +49 (0) 721/ 5606-149  
 info@carlroth.com • www.carlroth.com ip 07/2021

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