

Reagent D

Ready Reference Guide

Revision A, November 2023

Product No. KIT230001, KIT230002, KIT230003

Reagent D is designed for the rapid elimination of DNA from dead cells in enrichment cultures and samples to avoid false-positive PCR results. The reagent contains a light sensitive substance which can only penetrate the cell membranes of dead cells. Exposure to visible light leads to covalent binding of this substance to DNA and prevents the DNA from being amplified via PCR.

The reagent can be directly used in combination with the foodproof[®] DNA isolation kits.

KIT CONTENTS

- ▶ KIT230003: 3 bottles containing 5 mL reagent each
- ▶ KIT230001: 3 bottles containing 10 mL reagent each
- ▶ KIT230002: 15 bottles containing 10 mL reagent each

BEFORE YOU BEGIN

Reagent D has a mutagenic potential and the hazardousness has not been thoroughly investigated. Always wear gloves and handle this substance with caution.

In order to avoid cross-contamination use filter tips. Follow all universal safety precautions governing work with bio- and chemical-hazardous materials (e.g., wear lab coat and gloves at all times). Properly dispose all contaminated materials, decontaminate work surfaces and use a biosafety cabinet whenever aerosols might be generated.

Reaction tubes, deepwell plates or tube strips must have a transparent cap or cover. When writing on cap or cover, only use thin pencils to ensure light transfer through the cap into the tube or open cap carefully before exposure to light.

ADDITIONAL EQUIPMENT

foodproof D-Light LED lamp (Product No. MCH230039) or lamp with a 500 W halogen light bulb with cooling block for 1.5 ml reaction tubes

Please refer to the respective foodproof DNA isolation kit manual for a detailed list of instruments and reagents.

PROTOCOL

Please refer to the respective foodproof DNA isolation kit manual for a detailed protocol.
The following protocols are available:

- ▶ foodproof StarPrep One Kit (Product No. KIT230175, KIT230176) or foodproof StarPrep One 8-Strip Kit (Product No. KIT230183):
 - ▷ Use Reagent D (KIT230001 or KIT230002)

- ▶ foodproof StarPrep Two Kit (Product No. KIT230177):
 - Product Instructions for *Legionella*
 - Product Instructions for Yeast & Mold
 - Product Instructions for *Aspergillus*
 - Product Instructions for Spoilage Yeasts
 - ▷ Use Reagent D (KIT230001 or KIT230002)

- ▶ foodproof StarPrep Two 8-Strip Kit (Product No. KIT230177):
 - Product Instructions for *Aspergillus*
 - ▷ Use Reagent D (KIT230001 or KIT230002)

- ▶ foodproof StarPrep Three Kit (Product No. KIT230187):
 - Product Instructions for *Vibrio*
 - ▷ Use Reagent D (KIT230003)
 - Product Instructions for *Enterobacteriaceae* and *Salmonella*
 - ▷ Use Reagent D (KIT230001 or KIT230002)

- ▶ foodproof StarPrep Six 8-Strip Kit (Product No. KIT230192):
 - Product Instructions for Yeast & Mold Quantification
 - ▷ Use Reagent D (KIT230001 or KIT230002)

- ▶ foodproof Magnetic Preparation Kit IV (Product No. KIT230184):
 - Product Instructions for *Salmonella*, *Enterobacteriaceae* and *Cronobacter*
 - ▷ Use Reagent D (KIT230001 or KIT230002)

To find any Product Instructions, please visit www.hygiene.com/documents