

Reagent P

Ready Reference Guide

Revision A, December 2023

Product No.: KIT230007

The Reagent P is designed for the automated isolation of gram-negative bacterial DNA from enrichment cultures of protein-rich food samples (e.g., egg, ham, beef, pork, chicken, minced meat, salmon and cheese) in combination with the foodproof® Magnetic Preparation Kit I and the foodproof® RoboPrep+ Series robotic workstations. The Reagent P is a protein which is added to the foodproof Magnetic Preparation Kit I Lysis Buffer to optimize the cell lysis and the binding of the extracted DNA to magnetic beads. Number of preparations: 550 isolations.

KIT CONTENTS

- ▶ 3 bottles with 100 mg Reagent P

ADDITIONAL REAGENTS

Water, double-distilled

PROTOCOL

Reagent P should be used in combination with the foodproof Magnetic Preparation Kit I and the foodproof RoboPrep+ Series robotic workstation to provide fully automated purification of total genomic bacterial DNA from enrichment cultures of protein-rich food samples (e.g., egg, ham, beef, pork, chicken, minced meat, salmon and cheese). For protein-rich food samples the addition of the Reagent P to the Lysis Buffer of the foodproof Magnetic Preparation Kit I is necessary to provide high-quality DNA, which is suitable for direct use in PCR applications.

Preparation:

Dissolve the Reagent P in 5 mL double-distilled water; aliquot solution.

Application:

The Reagent P is added to the foodproof Magnetic Preparation Kit I Lysis Buffer in the following amounts. Add the appropriate volume of Reagent P to the foodproof Magnetic Preparation Kit I Lysis Buffer dependent on the number of reactions/samples to be processed.

Note: Always prepare the mixture for 10 additional reactions/samples due to dead volume in the reagent reservoir of the robotic workstation and pipetting losses.

Number of reactions / samples	Components (in mL)	
	foodproof Magnetic Preparation Kit I Lysis Buffer	Reagent P
1	0.32	0.025
10	3.20	0.25
20	6.40	0.50
30	9.60	0.75
40	12.8	1.00
50	16.0	1.25
60	19.2	1.50
70	22.4	1.75
80	25.6	2.00
90	28.8	2.25
100	32.0	2.50
110	35.2	2.75
120	38.4	3.00

For further information, please visit www.hygienea.com.