



## Reagent P

### Revision A, December 2023

For the automated isolation of gram-negative bacterial DNA from enrichment cultures of protein-rich food samples in combination with the foodproof® Magnetic Preparation Kit I and the foodproof RoboPrep+ Series robotic workstations

### Product No. KIT230007

Kit for 550 isolations

Store the kit at 15 to 25 °C

For food testing purposes.

**FOR *IN VITRO* USE ONLY**



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## 1. Kit components

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.

### 1.1 Chemical Hazard

Reagent P contains an irritating compound that is harmful when brought in contact with skin, inhaled or swallowed. Always store and use these kit components away from food for humans and animals. Always wear gloves and follow standard safety precautions during handling.

### 1.2 Number of Preparations

550 isolations

### 1.3 Storage

Store at 15 to 25°C through the expiration date printed on the label.

**Note:** Dissolved Reagent P can be stored as aliquots at -15 to -25 °C and is stable for 12 months.

### 1.4 Contents

Product	Contents / Function
3 Bottles with 100 mg Reagent P	<ul style="list-style-type: none"> <li>• Lyophilized</li> <li>• For protein digestion and inactivation of endogenous nucleases.</li> </ul>

### 1.5 Additional Equipment and Reagents required

- Water, double-distilled
- Pipette and tips

## 2. How to Use this Product

### 2.1 Test Principle

The 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 Reagent P to the Lysis Buffer of the foodproof Magnetic Preparation Kit I is necessary to provide high-quality DNA, suitable for direct use in PCR applications.



## 2.2 Preparation of the Working Solutions

The preparation of the following working solutions is required:

Product	Preparation of working solution	Storage and stability
Reagent P	Dissolve the Reagent P in 5 ml double-distilled water; aliquot solution.	<ul style="list-style-type: none"> <li>• Store at -15 to -25 °C</li> <li>• Stable for 12 months.</li> </ul>

## 2.3 Application

Reagent P is added to the foodproof Magnetic Preparation Kit I Lysis Buffer in the following concentration. 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



### 3. Troubleshooting

Problem	Possible Cause	Recommendation
Low DNA yield or purity	Reagent P stored under non-optimal conditions.	Store Reagent P at 15 to 25 °C at all times upon arrival.
	Reagent P was exposed to conditions that reduced its effectiveness.	After the lyophilized reagent is reconstituted, aliquot it, then store the aliquots at -15 to -25 °C.

### 4. Warranty and Disclaimer of Liability

Limited Warranty and Disclaimer of Liability. HYGIENA Diagnostics GmbH warrants that this product is free from defects in materials and workmanship through the expiration date printed on the label and only if the following are complied with:

- (1) The product is used according to the guidelines and instructions set forth in the product literature;
- (2) HYGIENA Diagnostics does not warrant its product against any and all defects when: the defect is as a result of material or workmanship not provided by HYGIENA Diagnostics; defects caused by misuse or use contrary to the instructions supplied, or if the product is contaminated by improper storage or handling;
- (3) All warranties of merchantability and fitness for a particular purpose, written, oral, expressed or implied, shall extend only for a period of one year from the date of manufacture. There are no other warranties that extend beyond those described on the face of this warranty;
- (4) HYGIENA Diagnostics does not undertake responsibility to any purchaser of its product for any undertaking, representation or warranty made by any dealers or distributors selling its products beyond those herein expressly expressed unless expressed in writing by an officer of HYGIENA Diagnostics GmbH;
- (5) HYGIENA Diagnostics does not assume responsibility for incidental or consequential damages, including, but not limited to responsibility for loss of use of this product, removal or replacement labor, loss of time, inconvenience, expense for telephone calls, shipping expenses, loss or damage to property or loss of revenue, personal injuries or wrongful death;
- (6) HYGIENA Diagnostics reserves the right to replace or allow credit for any modules returned under this warranty.



## 5. Supplementary Information

### 5.1 Ordering Information

Hygiena Diagnostics offers a broad range of reagents and services. For a complete overview and for more information, please visit our website at [www.hygiena.com](http://www.hygiena.com).

### 5.2 Trademarks

**foodproof**<sup>®</sup> is a registered trademark of Hygiena Diagnostics GmbH. Other brand or product names are trademarks of their respective holders.

### 5.3 Contact and Support

If you have questions or experience problems with this or any other product of Hygiena Diagnostics GmbH, please contact our Technical Support staff ([www.hygiena.com/support](http://www.hygiena.com/support)). Our scientists commit themselves to providing rapid and effective help. We also want you to contact us if you have suggestions for enhancing our product performance or using our products in new or specialized ways. Such customer information has repeatedly proven invaluable to us and the worldwide research community.

### 5.4 Reference Number

The reference number and original Hygiena Diagnostics GmbH article number: A 500 12

## 6. Change Index

### *Version 1*

First version of the package insert.

### *Revision A, December 2023*

Rebranding and new layout.

A 500 12 20 -> INS-KIT230007-RevA



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