

Allergen RM 800

Ready Reference Guide

Revision B, April 2024

Product No. KIT230009

The Allergen RM 800 is designed for the quantitative analysis of the allergens celery, soya, sesame, gluten, peanut, hazelnut, and walnut in food samples. This reference material contains these allergens in a proven homogenous concentration of 800 mg/kg spiked in a rice flour matrix and is extracted in parallel with the food samples, e.g., sausage products, spices, completed products, chocolates, or other confectionery. The purified DNA is used for the preparation of a calibration curve to quantify the amount of these allergens in food samples.

KIT CONTENTS

- ▶ 1 bottle with 2 g Allergen RM 800
- ▶ 5 x 1 mL Dilution Buffer

PROTOCOL

For reliable quantitative results it is recommended to apply the Allergen RM 800 in combination with the following kits:

foodproof® Celery Detection Kit	KIT230057
foodproof® Soya Detection Kit	KIT230058
foodproof® Hazelnut Detection Kit	KIT230059
foodproof® Peanut Detection Kit	KIT230060
foodproof® Gluten Detection Kit	KIT230061

It is recommended to use 200 mg of the reference material in parallel with the extraction sample to generate dilution curves as explained below.

Preparation of Standard Curve:

Use extracted DNA and Dilution Buffer (blue cap) to prepare dilutions according to table below. Use 200 mg of allergen RM 800 in parallel with the sample.

For each dilution step, pipet 90 µL Dilution Buffer into a new reaction tube. Transfer 10 µL from preceding step to new dilution step. Mix well between pipetting steps.

A typical experiment consists of 9 wells needed for the calibration curve (4 dilution steps each with 2 replicates) and one negative control, plus 2 × n wells (n = number of food samples). Since a multiwell plate has 96 wells, 43 food samples can be analyzed during one PCR run if the Allergen RM 800 calibration curve is analyzed in the same run.

Dilution step	Dilution	Final Concentration
1	undiluted	800
2	1:10	80
3	1:100	8
4	1:1,000	0.8

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

Allergen RM 800
KIT230009

Store kit at -15 to -25 °C

For food testing purposes
FOR IN VITRO USE ONLY
Made in Germany