

Validation Report

Rapid Test Easy for Crustacean

Cat.# M2247

**The quick detection for crustacean proteins
in swabs and clean-in-place rinse water**

Detection Limit 0.5 µg/mL crustacean protein

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1. Scope

The Rapid Test Easy for Crustacean is a lateral flow method for quick determination of whether there are residual crustacean proteins of allergenic ingredients in swabs and Clean-in-place rinse water. Water or phosphate buffered-saline (PBS(-)) can be used to prepare test solutions.

2. Overview

Detection protein	Tropomyosin
Detection limit	0.5 µg/mL crustacean protein
Reaction time	10 min

3. Sensitivity

Crustacean protein concentration	in water	in PBS(-)
0 ppm	-	-
0.5 ppm	+	+
5 ppm	+	+
10 ppm	+	+
100 ppm	+	+

+: Positive ±: Weak positive
-: Negative

*Protein concentration was valued using a 2-D Quant Kit (GE Health care)

4. Confirmation of Prozone Phenomenon

Material		in water	in PBS(-)
Black tiger shrimp (raw)	3,200 ppm	+	+
Black tiger shrimp (boiled)	1,400 ppm	+	+
Crab (raw)	1,100 ppm	+	+
Crab (boiled)	500 ppm	+	+

5. Cross-Reactivity

Material	0.1 % material in water	0.1 % material in PBS(-)
Egg	-	-
Wheat	-	-
Buckwheat	-	-
Milk	-	-
Peanut (roasted)	-	-
Soya	-	-
Chicken meat	-	-
Beef	-	-
Pork meat	-	-

For other seafoods

Material	0.1 % material in water	0.1 % material in PBS(-)
Squid	-	-
Scallop	-	-
Octopus	-	-
Tuna	-	-
Salmon	-	-
Seaweed	-	-