

# Validation Report

## Rapid Test Easy for Casein

Cat.# M2242

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

**Detection Limit            0.5 µg/mL milk protein**

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## 1. Scope

The Rapid Test Easy for Casein is a lateral flow method for quick determination of whether there are residual milk 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	Casein
Detection limit	0.5 µg/mL milk protein
Reaction time	10 min

## 3. Sensitivity

Milk protein concentration	in water	in PBS(-)
0 ppm	-	-
0.5 ppm	+	+
20 ppm	+	+
50 ppm	+	+
200 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(-)
0.1% Milk	+	+

## 5. Cross-Reactivity

Material	0.1 % material in water	0.1 % material in PBS(-)
Egg	-	-
Wheat	-	-
Buckwheat	-	-
Soy bean	-	-
Corn flour	-	-
Peanut (Roasted)	-	-
Rice flour	-	-
Corn flour	-	-
Shrimp	-	-
Crab	-	-