ARG80793
Crustacean Tropomyosin ELISA Kit

Summary

Product Description
ARG80793 Crustacean Tropomyosin ELISA Kit is a Enzyme Immunoassay kit for the quantification of Crustacean Tropomyosin in food (extraction, dilution).

Tested Application
ELISA

Target Name
Crustacean Tropomyosin

Conjugation
HRP

Conjugation Note
Substrate: TMB and read at 450 nm

Sensitivity
0.09 ppb

Sample Type
Food (extraction, dilution).

Standard Range
20 - 400 ppb

Sample Volume
100 µl

Application Instructions

Assay Time
20, 20 min (RT), 20 min (RT/dark)

Properties

Form
96 well

Storage instruction
Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note
For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Full Name
Crustacean Tropomyosin

Background
Not only by reason of their cross-reactivity to house dust mites crustaceans represent an important group of food allergens. In this regard tropomyosin, which can be found in all common crustacean species, is the most important protein. In cooked crustacean extracts this protein represents approximately 20% of total protein.

For crustacean allergic persons hidden crustacean proteins in food are a critical problem. Already very low amounts of the allergen can cause allergic reactions, which may lead to anaphylactic shock in severe cases. Because of this, crustacean allergic persons must strictly avoid the consumption of crustacean containing food. Cross-contamination, mostly in consequence of the production process, is often noticed. This explains why in many cases the existence of crustacean residues in food cannot be excluded. For this reason sensitive detection systems for crustacean residues in foodstuffs are required.

The Crustaceans (Tropomyosin) ELISA represents a highly sensitive detection system for tropomyosin (from penaeus indicus) and is particularly capable of the quantification of crustacean residues in fish products, soups, dressings, bakery products and meat products.
Images

ARG80793 Crustacean Tropomyosin ELISA Kit standard curve image

ARG80793 Crustacean Tropomyosin ELISA Kit results of a typical standard run with optical density reading at 450 nm.