

TECH OFFER

Rapid Formalin Test Kit



KEY INFORMATION

TECHNOLOGY CATEGORY:

Foods - Quality & Safety

Environment, Clean Air & Water - Biological & Chemical
Treatment

Healthcare - Diagnostics

TECHNOLOGY READINESS LEVEL (TRL): **TRL8**

COUNTRY: **THAILAND**

ID NUMBER: **TO175245**

OVERVIEW

The formalin test kit is a paper-based device suitable for detection of formalin contamination in paints, coating material such as pressed wood and plywood, fresh food such as meat, vegetables and fruits with 99.9% sensitivity & specificity, ensuring accurate results without interference. The test kit is quick and easy to use, with rapid results making it accessible for general use. The tech provider is looking for licensee to license the technology.

TECHNOLOGY FEATURES & SPECIFICATIONS

The Formalin test kit consists of three main components: (1) paper-based testing device, (1) control solution bottle, and (3) sample testing vial. The test kit provides rapid analysis and is simple to use by only dropping the sample solution obtained from

the reaction vial onto the portable paper-based device (T Zone) to allow the reaction, while the control solution is added to the C Zone to verify the device's validity. After 5 minutes, the test result can be read based on the colour diameter and comparing it to the colour chart indicated on the device to see if the tested material/food is safe.

POTENTIAL APPLICATIONS

This Formalin Test Kit can be applied in the food, coatings industry to verify the safety of products before use and exporting. It is also useful for public health agencies, testing companies, both governmental and private, as well as for general consumers who wish to conduct testing.

UNIQUE VALUE PROPOSITION

A rapid paper-based formalin test kit with innovative detection format by reading the colour diameter for effectively detection of formalin contamination without interference from the food/material background colour.