

# ALP Rapid Test Strip

#T004/50T

Alkaline Phosphatase (ALP) is an enzyme naturally present in all raw milks, which is used as an indicator of proper milk pasteurization. Complete pasteurization will inactivate the enzyme to below levels which are detectable by conventional methods. Because the heat stability of ALP is greater than that of pathogens which may be present in milk, the enzyme serves as an indicator of product safety. However, the failure to detect ALP activity does not guarantee that the product is pathogen free. The current ALP rapid test kit is based on chemical reaction of ALP with its substrate to detect ALP activity in pasteurized milk. It is specific and accurate.

## 1. Application

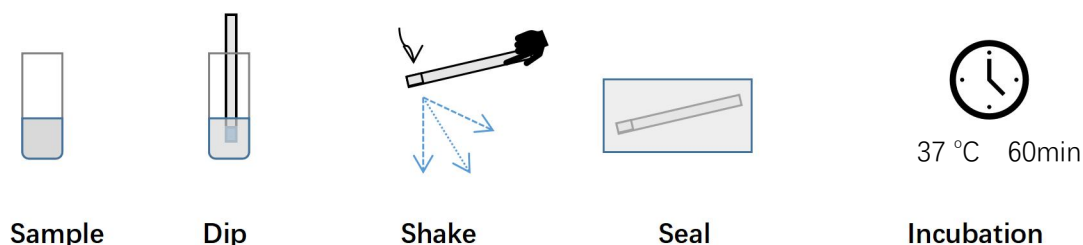
This ALP rapid test strip can be used in semi-quantitative detection of ALP in pasteurized milk.

## 2. Components

- Tube containing 50 test strips
- PE bags, 50 pcs,
- Manual 1 piece

## 3. Procedure

- 1) Read the instructions before experiment. Bring the test kit and samples to room temperature.
- 2) Immerse the reaction zone of the test strip into the test sample (15 – 30 °C) for 1 s. Seal the cap of the bottles and store the unneeded kit.
- 3) Shake off excess liquid from the strip. Seal it in a PE bag to avoid dryness of the test strip during incubation.
- 4) Incubate the sealed test strip at 37°C for 1h. Then take out and observe the result.

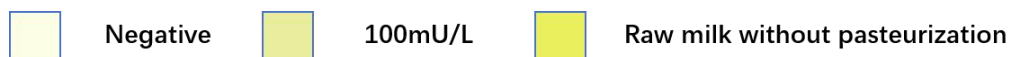


## 4. Result determination

**Positive:** the test zone on the strip is yellow or light yellow. The ALP activity is over 100mU/L.

**Negative:** the test zone remains no color. The ALP activity is less than 100mU/L.

**Detection limit:** 0.5 % raw milk in pasteurized milk, 100mU/L ALP in pasteurized milk.



## 5. Storage

The test strips are stable up to the date stated on the pack when stored at 2 – 8 °C. Lot number and expired date are printed on the package.

## 6. Notice and precautions for a successful experiment.

Please perform the assay following the instruction, do not touch the membrane of the strip.

The color of reaction zone may continue to change after the specified reaction time has elapsed. This must not be considered in the measurement.

Reseal the tube containing the test strips immediately after take out the necessary strips.