



# F-AP Fast Alkaline Phosphatase Test for Dairy

## Product Overview

The F-AP Fast Alkaline Phosphatase Test (F-AP) is the fastest available phosphatase method to verify effectiveness of pasteurization. The simple one-step procedure requires no reagent preparation\* and delivers results in just 45 seconds†. Alkaline Phosphatase is a natural milk enzyme that is destroyed by conventional pasteurization. This makes Alkaline Phosphatase an excellent marker to verify destruction of pathogenic microorganisms in HTST pasteurized dairy products.

With a detection limit of 20 mU/L, well below established US and EU regulatory thresholds of 350 mU/L, F-AP provides an early warning indicator of improper pasteurization. F-AP is granted approval by US National Conference of Interstate Milk Shipments (NCIMS), New Zealand Ministry of Agriculture and Forestry (MAF), and Tasmanian Dairy Industry Authority (TDIA).

\* Chocolate milk requires centrifugation

† Creams and chocolate milks require 90 second analysis



F-AP Fast Alkaline Phosphatase Test

## Benefits of F-AP Test Include:

- Achieves results in 45 seconds
- Room temperature incubation
- Calculation of alkaline phosphatase concentration
- Detection Limit: 20 mU/L (approximately 0.002% raw milk)
- NCIMS, MAF, and TDIA Approved

## Simple Procedure

1



Add Sample to F-AP vial

2



Mix and attach adapter

3



Insert and read using the novaLUM<sup>®</sup> II-X System

## Integration with HACCP Program

Hazard Pathogens, e.g.	Control Measures	CCP Parameters	Critical Limits	Target Values	HARCP Tests	Corrective Action
Listeria	Correct Design & Operation HTST unit	Time Temperature Definition EE. Section I, P.M.O. Not applicable at higher temperatures with less than 2 second hold time	Not less than 72 °C or 161 °F for 15 secs	e.g., 73 °C/163 °F for 15 secs 0 to 43 mU/L	Time/Temp/ Flow Rate	Repasteurize  Determine Phosphatase Type:  <i>Residual Microbial Reactivated</i>
Salmonella						
Brucella	System Validation with F-AP when seal is broken		Less than 350 mU/L Alkaline Phosphatase	Alkaline Phosphatase values greater than 100 mU/L should be investigated	Record of non-conformance > 350 mU/L F-AP result.	
Yersinia						
<i>E. Coli</i>						
<i>S. Pyogenes</i>						
<i>S. Aureus</i>						
Campylobacter						

## Ordering Information

Order Codes	Each Kit Includes
PAS-FAP-25K	F-AP Vials, Calibrator Tablets, Microtube Adapter, and Reconstitution Vial with Cap
PAS-FAP-100K	F-AP Vials, Calibrator Tablets, Microtube Adapter, and Reconstitution Vial with Cap
PAS-FAP-500K	F-AP Vials, Calibrator Tablets, Microtube Adapter, and Reconstitution Vial with Cap

See Operator's Manual for additional kits and order codes.