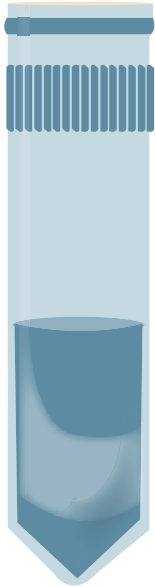


F-AP Fast Alkaline Phosphatase Test for Dairy Products

45
seconds

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^A and delivers results in just 45 seconds.^B 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).

^A Chocolate milk requires centrifugation

^B Creams and chocolate milks require 90 second analysis

Benefits of F-AP Test Include:

- Results in 45 seconds
- All-in-one reagents
- 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



Add sample to F-AP vial



Mix and attach adapter



Insert and read using
novaLUM[®] system

F-AP Integration with HARCP

Hazard Pathogens, e.g.	Control Measures	CCP Parameters	Critical Limits	Target Values	HARCP Tests	Corrective Action
Listeria Salmonella Brucella Yersinia <i>E.Coli</i> <i>S. Pyogenes</i> <i>S. Aureus</i> Campylobacter	Correct Design & Operation HTST unit System validation with F-AP when seal is broken	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 Less than 350 mU/L Alkaline Phosphatase	e.g., 73 °C/163 °F for 15 secs 0 to 43 mU/L Alkaline Phosphatase values greater than 100 mU/L should be investigated	Time/Temp/Flow Rate Record of non-conformance > 350 mU/L F-AP result.	Repasteurize Determine Phosphatase Type: <i>Residual Microbial Reactivated</i>

Ordering Info

Order Codes	Each Kit Includes
PAS-FAP-25K PAS-FAP-100K 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