

# ZymoSnap™ ALP (Alkaline Phosphatase)

Catalog # ZSALP100 / For use with Hygiena EnSURE Luminometer



ZymoSnap ALP is sold in packages of 100 devices.

## Description and Intended Use:

The ZymoSnap ALP (Alkaline Phosphatase) device is for measuring the level of ALP enzyme in milk and other milk based products. It is a rapid bioluminogenic method for determination of acceptable levels of ALP enzyme via the conversion of RLUs (Relative Light Units) to milli Units per liter of enzyme, after pasteurization of milk. The assay can confirm whether or not milk samples meet the required safe level of ALP in less than 5 minutes.

## Principle:

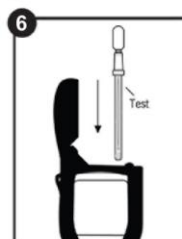
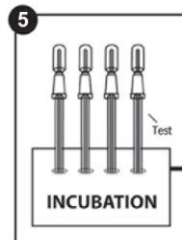
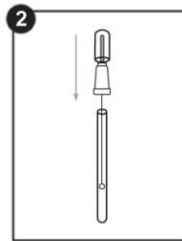
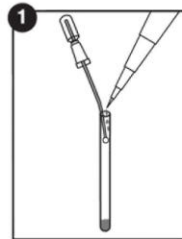
The assay uses a single self-contained device in one simple procedure. Milk sample is added to the ZymoSnap ALP device tube, the device is activated to release the detection reagent and incubated at 37°C for 5 minutes. The enzymatic action on the substrates is measured via bioluminescence on the Hygiena EnSURE Luminometer. The test is sensitive enough to measure below the 100mU/L of ALP regulation level. A positive and negative control should be run prior to the assay in order to establish detection over background via a standard curve.

## Test Procedure:

1. Allow test devices to equilibrate to room temperature (10 minutes). Lift the cap out of the tube. Use the loop attached to pick up 10µL milk sample.  
Note: 75 µL samples can be pipetted directly into tube.
2. Carefully, place the cap back on the device tube ensuring the milk sample stays on the loop.
3. Activate device by breaking the snap valve pin and squeezing the bulb to release the detection reagent into the tube.
4. Shake the tube gently for 5-10 seconds to mix reagent with sample liquid.
5. Incubate at 37°C for 5 minutes.
6. Place the device into the Hygiena EnSURE Luminometer and press "OK" to read RLUs. (ZymoSnap ALP is also compatible with other Hygiena Luminometers)

## Interpretation of Results:

1. RLU displayed on the luminometer is directly proportional to the mU/L of ALP.
2. RLU reading of 100 or less is approximately 100mU/L or less of ALP.
3. RLU reading of 500 or less equates to approximately 350 - 400mU/L.
4. For information about expected results for 75 µL sample contact us at [enquiries@hygiena.com](mailto:enquiries@hygiena.com)
5. For information about expected results on other Hygiena Luminometers contact us at [enquiries@hygiena.com](mailto:enquiries@hygiena.com)



## Material and Reagents Required But Not Provided:

1. Luminometer
2. Incubator set at 37°± 2°C
3. Sample preparation equipment and diluents (for thick/solid samples e.g. cheese)
4. Negative and Positive controls.

## Storage & Shelf Life:

- Store bags of devices at 2°- 8°C
- Devices have a shelf life of 12 months. Check expiration date on label.

## Caution and User Responsibility:

Components of ZymoSnap ALP devices do not pose any health risk when used correctly. Used devices should be disposed of in compliance with Good Laboratory Practice and local Health and Safety Regulations.

1. Devices are designed for a single use. Do not reuse.
2. Do not use devices after Expiration date.
3. Sampling should be done aseptically, to avoid cross contamination.
4. Ensure proper handling of the sample on the loop.
5. When activating devices, ensure that all the liquid in the bulb is transferred to the tube below
5. Ensure proper incubation temperature and time
6. The devices are light sensitive. Do not leave devices out of the bag for long periods of time.

## Hygiena Liability:

Hygiena will not be liable to user or others for any loss or damage whether direct or indirect, incidental or consequential from use of this device. If this product is proven to be defective, Hygiena's sole obligation will be to replace product or at its discretion, refund the purchase price. Promptly notify Hygiena within 5 days of discovery of any suspected defect and return product to Hygiena.

## Contact Information:

If more information is required, please visit us at

[www.hygiena.com](http://www.hygiena.com)

or contact us at:

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