



# **PicoKine™ ELISA**

**Catalog number: EK7115**

For the quantitation of **Alfalfa, Flax, Human, Maize, Plant Hspa1b** concentrations in Cell lysates, Plant extract, Plasma, Serum, Tissue

This package insert must be read in its entirety before using this product. For research use only. Not for use in diagnostic procedures.

## HSP70 ELISA Kit (PLANT)

Catalog Number: EK7115

### Introduction

Boster's ELISA Kit is for the detection of cytoplasmic Plant Hsp70 from plant extracts. But this kit is also compatible with human tissue extracts and lysates and serum and plasma. Each kit contains sufficient components to quantitate the Hsp70 concentration in up to 40 samples, tested in duplicate.

### Overview

Product Name	HSP70 ELISA Kit (PLANT)
Reactive Species	Alfalfa, Flax, Human, Maize, Plant
Size	96wells/kit
Description	Colorimetric detection used to quantitate HSP70 in plants. 96wells/kit, with removable strips.
Sensitivity	0.18 ng/ml *The sensitivity or the minimum detectable dose (MDD) is the lower limit of target protein that can be detected by the kit. It is determined by adding two standard deviations to the mean O.D. value of twenty (20) blank wells and calculating the corresponding concentration.
Detection Range	1.563 - 100 ng/ml
Storage Instructions	Store at 4°C.
Uniprot ID	P0DMV8/P0DMV9
Specificity	Natural and recombinant Alfalfa, Flax, Human, Maize, Plant Hspa1b
Cross Reactivity	There is no detectable cross-reactivity.

### Kit Components/Materials Provided

Description

Quantity

Anti-Hsp70 Immunoassay Plate	1 Plate
5X Hsp70 Extraction Reagent	1 vial/10 ml
Recombinant Hsp70 (Alfalfa) Standard	2 vials
Standard and Sample Diluent	1 vial/ 50 ml
10X Wash Buffer Concentrate	1 vial/100 ml
Anti-Hsp70 Biotinylated Antibody Concentrate	1 vial/150 $\mu$ l
Anti-Hsp70 Biotinylated Antibody Diluent	1 vial/ 13 ml
Streptavidin: HRP Concentrate	1 vial/150 $\mu$ l
Streptavidin: HRP Diluent	1 vial/ 13 ml
TMB Substrate	1 vial/ 13 ml
Stop Solution	1 vial/ 13 ml

## Required Materials That Are Not Supplied

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1. Ultra pure water.
2. Additional reagents and materials for cell lysate and tissue extract preparation, including protease inhibitors.
3. Precision pipettors, with disposable plastic tips.
4. Polypropylene or polyethylene tubes to prepare samples ? do not use polystyrene, polycarbonate or glass tubes.
5. A container to prepare 1X Wash Buffer.
6. A wash bottle or an automated 96-well plate washer.
7. Disposable reagent reservoirs.
8. A standard microtiter plate reader for measuring absorbance at 450 nm.
9. Adhesive plate sealers.

## Assay Overview

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1. Prepare Standard and samples in Standard and Sample Diluent.
2. Add 100  $\mu$ L of Standard to appropriate wells.
3. Cover plate with Plate Sealer and incubate at room temperature for 1 hour.

4. Wash plate four times with Wash Buffer.
5. Add 100  $\mu$ L of Detection Antibody Working Solution to each well.
6. Cover plate with Plate Sealer and incubate at room temperature for 1 hour.
7. Wash plate four times with 1X Wash Buffer as described in step 4.
8. Add 100  $\mu$ L of Streptavidin-HRP Working Solution to each well.
9. Cover plate with Plate Sealer and incubate at room temperature for 30 minutes.
10. Wash plate four times with 1X Wash Buffer as described in step 4.
11. Add 100  $\mu$ L of TMB Substrate to each well.
12. Develop the plate in the dark at room temperature for 30 minutes.
13. Stop reaction by adding 100  $\mu$ L of Stop Solution to each well.
14. Measure absorbance on a plate reader at 450 nm.

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