

Human Asprosin ELISA Instructions

Content

	CAT	Volume
CP (Coated Plate)	EH0032CP	96 well
2 S (Standard)	EH00328	2 vial
3 DA-H 100× (Detect Antibody-HRP)	EH0032DA-H	1 vial
④ SD (Standard Diluent)	ESD04	6 ml/bottle
DD (Detect Antibody Diluent)	EDD03	6 ml/bottle
(B) AB (Assay Buffer 1×)	EAB02	12 ml/bottle
7 TS (TMB Substrate)	ETS01	12 ml/bottle
8 SS (Stop Solution)	ESS01	12 ml/bottle
9 WB (Wash Buffer 10×)	EWB01	50 ml/bottle
Image: SF (Sealer Film)	ESF01	6 pieces

NOTE: After the kit is opened, the stabilization period of each content is 30 days, so please use the kit within 30 days after opening.

REAGENT PREPARATION

Washing Buffer (1×) Preparation

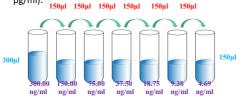
Pour entire contents (50 ml) of the Washing Buffer Concentrate (10x) into a clean 500 ml graduated cylinder. Bring to final volume of 500 ml with glass-distilled or deionized water. Transfer to a clean wash bottle and store at 2 to 25°C.

Detect Antibody-HRP 1× Preparation

Make a 1:100 dilution of the concentrated Detect Antibody solution with DD (Detect Antibody Diluent) in a clean plastic tube as needed according to the Standards and Samples.

Standard Curve Preparation:

Reconstitute the Human Asprosin Standard (EH0032S) with 100 μ l of deionized water. Add 30 μ l EH0032S + 270 μ l SD (Standard Diluent) serves as the high standard (300 ng/ml). Pipette 150 μ l of SD into each tube. Use the high standard to produce a 1:1 dilution series. Mix each tube thoroughly before the next transfer. SD serves as the zero standard (0 pg/ml).



Cat: EH0032 ASSAY PROCEDURE

Bring all reagents and samples to room temperature before use.

 Prepare all reagents and working standards as directed in the previous sections.

Remove excess CP (Coated Plate) strips from the plate frame, return them to the foil pouch and reseal.

3 Add 50 μl of AB (Assay Buffer) to each well.

Add 50 µl of Standard or sample per well. Ensure reagent addition is uninterrupted and completed within 15 minutes.

S Add 50 μ l of **DA-H** 1 \times (Detect Antibody-HRP) to each well.

6 Cover with an SF (Sealer Film). Incubate at room temperature (18 to 25°C) for 1 hours on a microplate shaker set at 500 rpm.

Aspirate each well and wash, repeating the process four times. Wash by filling each well with WB (Washing Buffer 300 µl). Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining WB (Washing Buffer) by aspirating or decanting. Invert the plate and blot it against clean paper towels.

3 Add 100 μl of TS (TMB Substrate) to each well. Incubate for 5-30 minutes at room temperature.

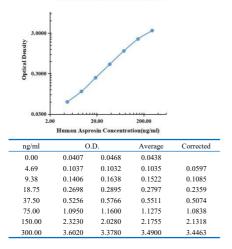
9 Add 100 μl of SS (Stop Solution) to each well.

Determine the optical density within 30 minutes, using microplate reader set to 450 nm corrected with 570 nm or 630 nm.



TYPICAL DATA

Human Asprosin Typical Standard



SENSITIVITY

The minimum detectable dose (MDD) of human Asprosin is typically less than 0.78 ng/ml.

The MDD was determined by adding two standard deviations to the mean optical density value of ten zero standard replicates and calculating the corresponding concentration.

PRECISION

Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.

Inter-assay Precision (Precision between assays)

	Intra-assay Precision			Inter-assay Precision			
Sample Number	81	82	83	81	82	83	
	22	22	22	6	6	6	
Average (ng/ml)	6.4	29.6	112.8	5.9	31.2	118.1	
Standard deviation	0.3	1.2	5.9	0.3	1.3	5.4	
Coefficient of variation (%)	4.0	4.0	5.2	5.1	4.2	4.6	

SAMPLE VALUES

Serum/Plasma – Thirty samples from apparently healthy volunteers were evaluated for the presence of Asprosin in this assay. No medical histories were available for the donors.

Sample Matrix	Sample Evaluated	Range (ng/ml)	Detectable %	Mean of Detectable (ng/ml)	
Serum	30	3.35-128.74	100	34.32	

n.d. = non-detectable. Samples measured below the sensitivity are considered to be non-detectable.

Sample Diluent

If the concentration of the sample is too high, the sample can be diluted with Sample Diluent.