

Histamine Test

Quick and Easy Determination of Histamine in Raw Fish



Advantages of System

Histamine Test system is a rapid colorimetric enzyme assay system for the quantitative analysis of histamine in raw fish, frozen fish or canned tuna.

Easy to Extract : No need to clean up, while HPLC method requires pre-cleaning to remove interfering substances.

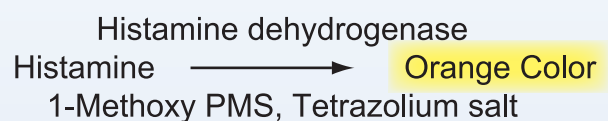
Easy to Use : Not required complicated procedure as HPLC or EIA methods. Portable absorptiometer is applicable for the measurement.

Kit configuration

Histamine Test (Code: 61341)

60 tests / kit :	
Enzyme reagent (lyophilisate)	6
Colorimetric reagent (lyophilisate)	6
Histamine Standard solution (30mL)	1
Buffer (24mL)	3
	(store at 2~8°C)

Principle of Measurement



Histamine dehydrogenase catalyses the oxidation of histamine. This reaction in the presence of 1-methoxy PMS can produce colored tetrazolium salt that can be measured around 470 nm.

Product Specifications

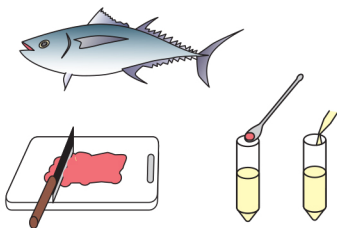
Lower detection limit : 0.4ppm (When using the **Absorptiometer B**)

*Lower detection limit in the raw fish meat is 10ppm, because it is diluted 25 fold by extraction.

Time required for assay : 15 minutes

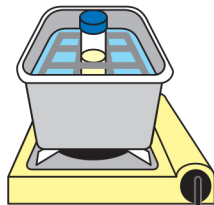
Assay procedure for raw fish

1 Homogenization



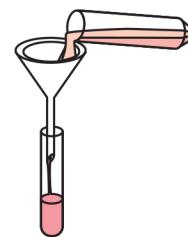
Homogenize the sample. Add 1g of the sample to 24 ml of sample treatment buffer.

2 Extraction



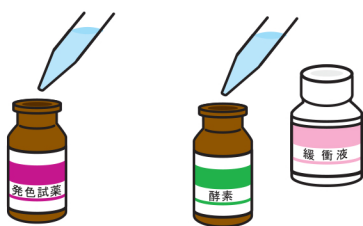
Boil for 20 min. and cool down the sample extract.

3 Filtration



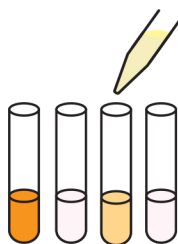
Filtrate the sample extract.

4 Preparation of reagents



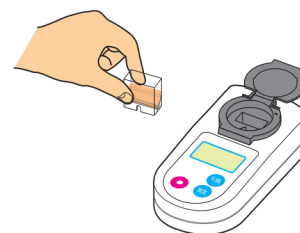
Dissolve colorimetric reagent with distilled water. Dissolve enzyme reagent with a supplied buffer.

5 Enzyme reaction



Add several reagents and the extracted sample solution to test tubes. Mix them well, avoid light and incubate at 37°C for 15 min.

6 Measurement



Measure the absorbance of each test tube at 470 nm. Calculate concentration of histamine in samples using their absorbance and an equation.

Notice

- *This kit is not intended for the purpose other than a voluntary testing and/or a research.
- *For this measurement, some other equipment, such as pipettes and tubes, and EDTA solution other than this kit and absorptiometer are required.
- *Please use plastic lab wares and avoid glass wares because histamine may adhere to glass.
- *This kit is basically designed for measuring histamine in raw fish. However, there are some cases that can be applied for other samples by altering pretreatments.

For more information, please visit our website or contact us.


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