

GOT / AST Test Kit

REF	Pack Size	Reagent 1	Reagent 2
GOTLMS01	2x25 ml	2x20 ml	2x5 ml
GOTLMS02	4x25 ml	4x20 ml	4x5 ml
GOTLMS03	1x25 ml	1x20 ml	1x5 ml
GOTLMS04	4x50 ml	4x40 ml	4x10 ml

INTENDED USE

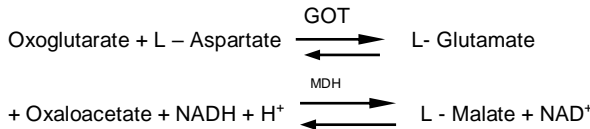
GOT/AST reagent is used for the quantitative determination of GOT/AST activity in human serum or plasma.

CLINICAL SIGNIFICANCE

The AST is a cellular enzyme found in highest concentration in heart muscles, the cells of the liver, the cells of the skeletal muscles and in smaller amounts in other tissues. Although an elevated level of AST in the serum is not specific of the hepatic disease, it is used mainly to diagnose and to verify the course of this disease with other enzymes like ALT & ALP. Also, it is used to control the patients after myocardial infarction, in skeletal muscle disease and others. Clinical diagnosis should not be made on a single test result; it should integrate clinical and other laboratory data.

METHOD: UV Kinetic Method

TEST PRINCIPLE



KIT CONTENTS/COMPONENTS

Reagent 1 : Buffer Enzyme
 Reagent 2 : Substrate

MATERIAL REQUIRED BUT NOT PROVIDED.

Laboratory instrumentation, spectrophotometer UV/VIS with thermostatic cuvette holder or clinical chemistry analyzer: semi-automated, calibrated micropipettes, glass or high-quality polystyrene cuvettes, test tubes/rack, heating bath, controls, saline.

SAFETY PRECAUTIONS AND WARNINGS

- For in-vitro diagnostics use only.
- Do not pipette by mouth. Avoid contact with skin and eyes. If spilled thoroughly wash affected area with water.
- Do not use the reagent after the expiration date printed on the kit.

REAGENT PREPARATION, STORAGE AND STABILITY

Reagent 1 & 2 are ready to use & are stable up to expiry date when stored at 2 – 8°C.

Step 1: For working reagent formation, Mix well four part of Reagent 1 and one part of Reagent 2. i.e. (800 µl R1 + 200 µl R2). The mixture is stable for 4 weeks at 2 – 8°C.

Stability since first opening of vials: within 30 days at 2-8°C.

REAGENT DETERIORATION

Discard the reagent if absorbance less than 1.0 at 340nm against distilled Water.

SPECIMEN:

Use Serum, plasma. GOT-AST is stable for 7 days at 2-8°C or 7 days at -20 °C

PROGRAM AND PROCEDURE

Reaction Mode	Kinetic
Wavelength	340 nm
Light Path	10 mm
Reagent Volume	1000 µl
Sample Volume	100 µl
Delay Time	30 sec.
Interval Time	60 sec.
Factor	1746
Linearity	500U/L

PROCEDURE:

Reagent	1000 µl
Sample	100 µl

Mix & incubate for 30 sec. at assay temperature, read the first reading at 30 second and subsequently two more readings with 60 seconds interval at 340 nm.

CALCULATION:

GOT activity (U/L) = $\Delta A/\text{min.} \times 1746$

NORMAL VALUES:

Men: Up to 37 U/L
 Women: Up to 31 U/L

LIMITATIONS

If the value exceeds 500U/L, dilute the sample with 0.9% saline solution and result multiplied by dilution factor.

QUALITY CONTROL AND CALIBRATION

It is suggested to perform internal quality control with assayed normal and assayed abnormal, to confirm the validity of the test and assure the accuracy of patient result. Using the recommended calibrator or the Standard included, calibrate the assay.

- When using a new reagent or lot
- When QC values are out of range

WASTE DISPOSAL

This Product is made to be used in professional laboratories.










HIGHLIGHTS

- Storage condition mentioned on the kit is to be used.
- Do not freeze or expose the reagents to higher temperature as it may affect the performance of the kit.
- Before testing bring the reagents to the RT.
- Avoid reagents contamination.
- Every time use new pipette-tips for pipetting out the reagents.
- These Reagent kits meant for laboratory/professional use only, not for Drug use.

REFERENCE

Tietz N.W., ed. Clinical Guide to laboratory Tests, 3rd ed. Philadelphia, Pa: W.B. Saunders, 1995:76,77.

Lords Data File.

	REF	Catalog No.		Contain Sufficient for test
	LOT	Batch No.		Instruction for use
	Mfg Date	Manufacturing Date		In-vitro Diagnostics
	Expiry Date	Expiry Date		Storage temperature
	Manufacturer	Manufacturer		

IFU/GOT/01 Rev.: 03; Rev Dated.: 22/07/2024

