



ASO

Antistreptolysin O Test Kit (Nephelometry Immunoassay Method)

Instructions for Use

Version: A/8

REF HP-ASO-25

Manufacturer

444

Shijiazhuang Hipro Biotechnology Co., Ltd.

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Product Name

General Name: Antistreptolysin O Test Kit (Nephelometry Immunoassay Method)

Specification

Package Specification 25 Tests/ Kit.

Intended Use

This product is used to determine the content of Anti-Streptolysin"O" (ASO) in human blood, and specific reagent for the specific protein analyzer, applies only to the clinical in vitro assisted diagnosis.

Streptolysin "O" is one of the metabolites of group A hemolytic streptococcus, a hemolytic activity of the protein, highly immunogenic. Hemolytic streptococcus group A in the human body exists as normal flora. The ASO has certain basic values in the normal human body. ASO increased after Hemolytic streptococcus infected. Therefore, ASO has become an important indicator to determine the streptococcal infection. Patients with Hypercholesterolemia or macroglobulinemia may also appear the ASO elevated.

Test Principle

The ASO units conjugated Anti-Streptolysin"O" (ASO) in the latex surface. ASO in the sample and the antibody become to immune complexes by Latex condensation reaction. The immune complexes will produce the phenomenon of light scattering, is proportional to the intensity of scattered light

and samples of ASO levels. Using specific protein analyzer to measure the intensity of scattered light, the concentration of ASO is determined by comparing the turbidity of samples to the standard concentration.

Component

The ASO test kit consists of two reagents R1 and R2, as shown on Figure 1.

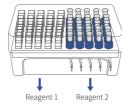


Figure 1

Quantity

0.1mol/L

me	Content
	Phosphate buffer

Reagenti		
(R1)	Polyethylene glycol	2%
Reagent 2	antibody sensitized latex	appropriate
(R2)	Phosphate buffer	0.1mol/L
IC card (optional)	/	1

Do not mix different batches of reagents.

Storage&stability

Store the test kit at $2^{\circ}\text{C-}8^{\circ}\text{C}$ until the expiration date indicated on the label. The test kit is stable for one year when unopened. Use up the test kit within one month after opening the package.

Do not freeze the test kit.

Do not mix different lots of the test kit.

Special Instrument Requirements

HP-083/4-I POCT Immunoassay System, HP-083/4-II POCT Immunoassay System, HP-AFS/1 Automatic Immunoassay System, HP-AFS/3 Automatic Immunoassay System.

Specimen type

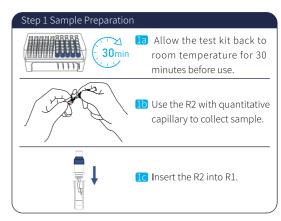
Serum samples, avoid hemolysis. Should be separated and tested in time after blood collection. store for 48 hours under 2-8 °C.

Procedures

HP-083/4-I&HP-083/4-II POCT Immunoassay System

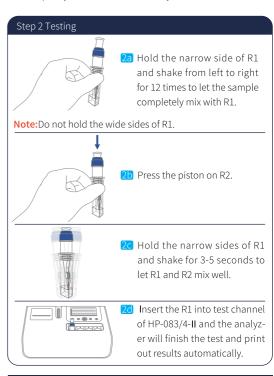
Note:

- Please read user manual of HP-083/4-I and HP-083/4-II before use.
- The analyzer will finish self check after start-up.
- Insert the IC card of ASO test kit to let analyzer read the parameter.
- The analyzer calibration can be done with app. It is recommended that analyzer calibration should be done for each new lot of test kit.



Note:

- The parameter is built in the IC card.
- Please insert the corresponding IC card into analyzer to let the analyzer read the parameter before each assay test.
- The capillary of the R2 should be fully filled.



HP-AFS/1&HP-AFS/3 Automatic Immunoassay System

Note:

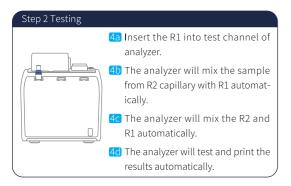
- Please read user manual of HP-AFS/1 and HP-AFS/3 before use.
- The analyzer will finish the self check after start-up.
- It is recommend to do analyzer calibration monthly and for each new lot of test kit.





Note:

- Please update the standard curve with the barcode on the R1 cuvette if a new lot test kit is to be used.
- The capillary of the R2 should be fully filled.



Calibration

The calibration values for the different lots of the kits are stored on the calibration IC card or the two-dimensional code on the cuvette. Before test the new lot of kits, read the calibration card parameters first. Or the instrument automatically scan the two-dimensional code on the cup to obtain the corresponding calibration curve during testing.

Quality control

3- level calibration system guarantee the results' reliability for each lot of test kits, including the instrument calibration, remote reagent calibration and the third party calibration.

The third party calibration applicable for:

- 1. The daily indoor quality control test.
- 2. New lots of reagent.
- 3. New operator training.
- 4. The results can not match the clinical symptoms.
- 5. The first use of the reagent.

If still can not be calibrated, contact the manufacture for further technical support.

Reference Value

Normal reference range is $0 \sim 200 \, \text{IU/ml}$.

Recommended that each laboratory establish its own reference range.

Interpretation

infection was found. it is suggested to find out the specific

The test results of this reagent are only for clinical reference. the clinical diagnosis and treatment of patients should be considered in combination with their symptoms / signs, medical history, other laboratory tests and treatment responses.

Limitations

Hemoglobin>5g/L, triglyceride>5mmol/L, bilirubin>510 µmol/L had effect on the test result.

Performance Characteristics

1. Linearity range: 30-600 IU/mL.

2. Detection limit: ≤16 IU/mL.

The limit of detection means the lowest detectable analyte level that can distinguish the concentration. Calculate based on the minimum standard above the two standard deviation of the data (Blank table, 1+2SD, within-run precision, n=20).

3. Precision

Test the control material by Antistreptolysin O Test Kit 2 times per day for 20 days (n=80) according to EP5-A2 of CLSI. The data as below:

a.

	HP-083/4-II POCT Immunoassay System					
Sample		Mean	Within-Run		Between-Run	
	Sample	IU/mL	S.D.	%C.V.	S.D.	%C.V.
	Control 1	106	4.75	4.5	4.42	4.2
	Control 3	389	9.60	2.5	13.25	3.4



HP-AFS/3 Automatic Immunoassay System					
Sample	Mean	Within-Run		Between-Run	
Sample	IU/mL	S.D.	%C.V.	S.D.	%C.V.
Control 1	105	5.09	4.8	4.45	4.2
Control 3	392	12.5	3.2	10.07	2.6

HP-AFS/1 Automatic Immunoassay System					
Sample	Mean	Withi	n-Run	Between-Run	
Sample	IU/mL	S.D.	%C.V.	S.D.	%C.V.
Control 1	110	4.69	4.3	4.06	3.7
Control 3	380	13.2	3.5	11.21	3.0

4. Methodology comparison

Compared to Hitachi 7100 ASO TIA(x) by test the same samples, the relative data as below:

HP-AFS/3 Automatic Immunoassay System					
Site No.	Sample Type	No.of Assays	Regression Line	Coefficient correlation	
1	Serum	50	Y= 0.93X+0.18	0.95	

The concentration of sample is about 50 IU/mL -600 IU/mL.

Precautions

!\ Attention:

Only for in vitro diagnostic.

Only for professional use.

All samples and reactive wastes are treated as sources of infec-

Do not use the kits beyond shelf life.

Do not mix different batches of reagents.

⚠ Warning:

To avoid error, do not forced to take out the cuvette from the device. Follow the device operation manual strictly, If the problem cannot be solved, contact the manufacturer for further technical support.

SYMBOLS USED ON LABELS

Symbol	Usage	Symbol	Usage		
\square	Use-By date	⊗	Do not freeze		
LOT	Batch code	∞	Biological risks		
	Manufacturer	(2)	Do Not Reuse		
2°C \$ 8°C	Temperature Limit				
\sum	Contains sufficient for <n> tests</n>				
	Do not use if package is damaged				
[]i	Consult Instructions for use				
豢	Keep Away from Sunlight				
IVD	In Vitro Diagnostic Medical device				
EC REP	Authorized Representative in the European Community				

References

Galiving, P.et al; Clin.lab.assays 4: 73-95(1983)

Approval Date&Revision Date

Approval Date: Sep 9,2015 Revision Date: May 6,2016 Revision Date: May 1, 2017 Revision Date: Feb 1,2019 Revision Date: Apr 1,2019 Revision Date: Jan 1, 2021 Revision Date: Apr 1, 2021 Revision Date: Jan 1, 2023 Revision Date: Dec 22,2023

尺寸:24*25cm展开尺寸,横向三折页再垂直方向两次对折