Sulphosalicylic Acid 3%

R020

Intended use

Sulphosalicylic Acid 3% is used to determined presence of proteins in urine sample by turbidimetric method.

Composition**

Ingredients

Sulphosalicylic acid	3.0 gm
Distilled water	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

1. Divide the urine specimen into two portions (urine sample should be cleared if necessary by centrifugation).
2. To one portion, add 3 parts of 3% aqueous Sulphosalicylic acid. Allow to stand for 10 minutes and compare with the other portion.

Principle And Interpretation

There are two basic approaches available for measuring protein in urine, the turbidimetric method and colorimetric reagent strip. Sulphosalicylic acid method comes under turbidimetric method. Protein is denatured by acid so that it becomes less soluble and is precipitated. Amount of precipitation is directly proportional to amount of protein present in urine.

Type of specimen

Clinical specimen: Urine sample

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines.
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. Turbid urine may mask a positive reaction so the supernatant from properly spun urine sample should be used for determination of proteins.
2. Highly alkaline urine require acidification to pH 7.0 before performing the Sulphosalicylic acid test.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance :** Colourless liquid may have slight pink tinge.
- **Solubility :** Clear without any precipitate
- **Concentration :** 2.95- 3.05%
- **Results :** Protein from urine can be estimated by the turbidometric method using sulphosalicylic acid reagent.

7.5 mg/100ml up	Negative
to 20mg/100ml up	Trace
to 30mg/100ml up	+
to 50mg/100ml up	++
to 75mg/100ml	+++

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Reference

1. Newell J.E. and Duke E., 1961, Workshop on urine analysis and renal function studies the routine examination of urine in laboratory, Chicago, American Society of Clinical Pathologist.
2. Senberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
3. Jorgensen, J.H., Pfaller , M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
4. Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology', Norris J. and Ribbons D., (Eds.), Vol. 3A, Academic Press, London.
5. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.

Storage temperature

Do not use if package is damaged

IVD

In vitro diagnostic medical device

CE Marking

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