



Neutral Red Indicator

I008

Intended use

Neutral red Indicator is a xanthine dye used for staining in histology.

Composition**

Ingredients

Neutral red	0.5 gm
95% Ethanol	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

1. Neutral red Indicator has wide range of application so follow appropriate direction as per application protocol.

Principle And Interpretation

Neutral red is a xanthine dye used for staining in histology. It stains lysosomes red. It is used as a general stain in histology, as a counterstain in combination with other dyes, for many staining methods. Together with Janus Green B, it is used to stain embryonal tissues and supravital staining of blood. Can be used for staining Golgi apparatus in cells and Nissl granules in neurons. In microbiology, it is used in MacConkey agar and broth media to differentiate bacteria for lactose fermentation. It acts as a pH indicator, changing from red to yellow between pH 6.8 and 8.0.

Type of specimen

Biological sample

Specimen Collection and Handling

Follow appropriate techniques for handling specimens as per established guidelines.

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. An indicator is not functional above its pH range because the indicator does not change color at these pH values.
2. If the substance or sample is contaminated, the color may be wrong.
3. Acid-base indicators show just one- or two-color changes.
4. Indicators measure pH at low accuracy, they only indicate sample acidity or alkalinity and not exact pH

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** : Pink to red coloured solution.
- **Clarity** : Clear without any particles
- **Reaction** : Reaction at pH 6.8, the indicator is red and at pH 8.0 the indicator turns yellow.

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. Winckler, J. Vital staining of lysosomes and other cell organelles of the rat with neutral Red. Prog. Histochem. Cytochem. 6, 1–89 (1974).
2. Chemistry infolab reagents and resources ; The preparation of titration indicators; Dhanal De Lloyd, chem. Dept
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. 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.
5. INDIAN PHARMACOPOEIA 2018, VOL-I, 4.3(961)



Storage temperature



Do not use if package is damaged



In vitro diagnostic medical device



CE Marking



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