



*Wij's Solution

R074

Intended Use:

Wij's solution is analytical reagent used to determine the iodine value of a substance.

Composition**

Ingredients

Iodine monochloride	16.230 gm
Acetic acid concentrated	1000.0ml

**Formula adjusted, standardized to suit performance parameters

Principle And Interpretation

Fatty acids present in sample reacts with excess of Wij's solution. Unreacted Wij's solution is then allowed to react with potassium iodide, converting it to iodine, whose concentration can be determined by titration with sodium thiosulfate to determine iodine value of sample.

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.

Performance and Evaluation

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

Quality Control

Appearance

Brown liquid.

Concentration

c(I₂) : 0.1 mol/l

Storage and Shelf Life

On receipt store between 2-8°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 (2,3).

Reference

1. Brisbois, R. G.; Wanke, R. A.; Stubbs, K. A.; Stick, R. V. "Iodine Monochloride" Encyclopedia of Reagents for Organic Synthesis, 2004 John Wiley & Sons.
2. Firestone D (May–Jun 1994). "Determination of the iodine value of oils and fats: summary of collaborative study". J AOAC Int. 77 (3): 674–6.
3. Obtaining the Iodine Value of Various Oils via Bromination with Pyridinium Tribromide Michael Simurdiak, Olushola Olukoga, and Kirk Hedberg Journal of Chemical Education Article ASAP doi:10.1021/acs.jchemed.

- 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.

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