PRODUCT INFORMATION

Povidone-Iodine
Item No. 27883

CAS Registry No.: 25655-41-8
Formal Name: 1-ethenyl-2-pyrrolidinone, homopolymer, compd. with iodine
Synonyms: Iodopovidone, NSC 26245, Polyvinylpyrrolidone-Iodine
MF: (C_H NO) \cdot XI_2
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Povidone-iodine is supplied as a solid. A stock solution may be made by dissolving the povidone-iodine in the solvent of choice. Povidone-iodine is soluble in the organic solvent DMSO, which should be purged with an inert gas. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

Povidone-iodine is a microcide with broad-spectrum activity against bacteria, fungi, viruses, and protozoans.\(^1\) It reduces total anaerobic and aerobic bacterial counts in vitro in dog feces when applied topically as a 10% solution.\(^2\) Povidone-iodine decreases bacterial counts and the occurrence of anastomotic leaks in a dog model of emergent resection and anastomosis of the sigmoid colon when applied in situ at a concentration of 10% v/v. Topical administration of povidone-iodine (10% v/v) also reduces bacterial counts on the skin of cynomolgus monkeys.\(^3\) Formulations containing povidone-iodine have been used to disinfect skin before and after surgery.

References