**Iodine-123 Radiochemical Sodium Iodide Solution**

Sodium Iodide (I-123)  
Half-Life: 13.2 hours

**Iodine-123 Radiochemical Sodium Iodide Solution**  
Iodine-123 is an ideal research tool for neurology, oncology and cardiology.

Researchers prefer using iodine-123 because of the short half-life, clear SPECT images, and because iodine-123 is easy to handle, shield and dispose of.

BWXT has an unparalleled base of technical expertise and production capabilities. State-of-the-art facilities provide a reliable supply of isotopes to customers around the world.

**Process Data**

**Nuclear Reaction**  
Primary  
\[ ^{124}\text{Xe} (p,2n) ^{123}\text{Cs} \rightarrow ^{123}\text{Xe} \rightarrow ^{123}\text{I} \]

Secondary  
\[ ^{124}\text{Xe} (p,pn) ^{123}\text{Xe} \rightarrow ^{123}\text{I} \]

**Assay**  
High resolution gamma spectrometry at 159 keV

**Product Specification**

**Chemical Form**  
Sodium iodide in 0.1N NaOH

**Specific Activity**  
No carrier added

**Activity Concentration**  
At customer request

**Radiochemical Purity**  
≥ 95% iodide

**Radiopurity**  
≥ 99.8% \(^{123}\text{I}\)  
≤ 0.2% total other nuclides

*At noon, Pacific Time, one day after shipment.

Please note that the radiochemicals listed are not tested for sterility or pyrogenicity. Verification of their suitability for use in humans is the sole responsibility of the purchaser.

**Packaging**

- Kontes vial – crimp cap glass vial (1 mL, 3 mL, 5 mL)
- Hypovial – crimp cap glass vial with septum (6 mL, 10 mL, 20 mL, 30 mL)  
(Other vial options are available)

**Availability**

Dispensed Monday-Thursday

**Product Origin**

Vancouver, Canada

**World-Class Delivery Service**

BWXT has a world-class distribution system that includes a unique, software-based order management system. Carefully managed transportation logistics focus on products reaching their destinations on time.

BWXT
INNOVATION DRIVEN

BWXT ITG Canada, Inc. provides its customers, who conduct life-saving medical procedures for patients around the world, the benefit of decades of experience in the development, processing, packaging and delivery of medical isotopes. Headquartered in Kanata, Ontario, BWXT ITG Canada, Inc. employs approximately 150 highly skilled people in Kanata and Vancouver, British Columbia. BWXT ITG Canada, Inc. is part of the BWXT nuclear power segment of BWX Technologies, Inc. (NYSE:BWXT), headquartered in Lynchburg, Virginia, U.S.A. BWXT is a leading supplier of nuclear components and fuel to the U.S. government; provides technical and management services to support the U.S. government in the operation of complex facilities and environmental remediation activities; and supplies precision manufactured components, services and fuel for the commercial nuclear power industry. With approximately 6,250 employees, BWXT has 11 major operating sites in the U.S. and Canada. In addition, BWXT joint ventures provide management and operations at more than a dozen U.S. Department of Energy and NASA facilities. Follow us on Twitter @BWXTech and learn more at www.bwxt.com.

The information contained herein is provided for general information purposes only and is not intended nor to be construed as a warranty, an offer, or any representation of contractual or other legal responsibility.

The products and services described herein are provided by the subsidiaries of BWX Technologies, Inc.

© 2018 BWX Technologies, Inc. All rights reserved.