



Technical Data Sheet

Iodine-123 Bulk Radiochemical

Sodium Iodide (I-123)

Half-Life: 13.2 hours

ORIGIN: Denton, Texas
CHEMICAL FORM: Sodium Iodide in 0.02N NaOH or Sodium Iodide in 0.1N NaOH with or without stabilizer
PHYSICAL FORM: Liquid, Sodium Thiosulfate or Dry from 0.1N NaOH
SPECIFICATIONS: Radionuclidic Purity: $\geq 99.2\%$
(@ Calibration) Other Radionuclides: $\leq 0.8\%$
Radiochemical Purity:
Iodide: $\geq 95.0\%$
Iodate: $\leq 5.0\%$
pH: > 7
Identity: I-123 Major peak at 159 keV
Activity Concentration: $\geq 25\text{mCi/mL}$

NUCLEAR REACTION: $^{124}\text{Xe}(p,2n)^{123}\text{Cs} \xrightarrow[5.94\text{m}]{\beta^+} ^{123}\text{Xe} \xrightarrow[2\text{h}]{\beta^+} ^{123}\text{I}$
 $^{124}\text{Xe}(p,pn)^{123}\text{Xe} \xrightarrow[2\text{h}]{\beta^+} ^{123}\text{I}$

CALIBRATION: 20:00 CT the day of manufacture

UNIT OF SALE: millicurie

EXPIRATION: 48 hours after calibration

PRODUCTION SCHEDULE: Daily

DELIVERY: FOB Denton, Texas

ORDER DEADLINE: 5 days prior to day of shipment

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