

SODIUM IODIDE (¹³¹I) CAPSULES

Areas of Application

The sodium iodide (¹³¹I) is a radiopharmaceutical used in nuclear medicine for diagnosing and treating thyroid cancer and its metastases

Specification

The one-stage thermographic technology has been developed for the extraction of ¹³¹I from tellurium irradiated by neutrons from WWR-M research reactor of INR of the NAS of Ukraine. ¹³¹I output from the target material exceeds 70%. The final product is carrier-free sodium iodide (¹³¹I) solution dispersed on the surface of solid inert carrier contained in gelatin capsules. The physical and chemical properties of sodium iodide (¹³¹I) meet the requirements of the European Pharmacopoeia.

Radioactive Concentration, MBq/ml	37 – 1100
Radionuclide purity, %	99.99
Radiochemical purity, %	>97
Chemical purity, ppm Te	<1
Acidity, pH	7 – 10



Plant for production of sodium iodide (¹³¹I) capsules

Advantages

There are no counterparts in Ukraine; cheaper than the foreign analogs

Stage of Development. Suggestion for Commercialization

IRL4, TRL4
Manufactured and supplied, upon request

IPR Protection

IPR1

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