

IOM-2

Na¹³¹I CAPSULES

(DIAGNOSTIC -FOR ORAL ADMINISTRATION)

Radioactive iodine uptake (RAIU) or thyroid uptake test to evaluate thyroid function as reflected by the quantitative measurement of the fraction of an administered amount of radioactive iodine that accumulates in the thyroid gland at selected times following ingestion

INDICATIONS

- Assists in determining the amount of I-131 to be administered to patients for therapy of hyperthyroidism due to Graves' disease, toxic nodular goiter or ablative therapy
- Assists in diagnosing and confirming hyperthyroidism
- Differentiates hyperthyroidism from other forms of thyrotoxicosis such as sub-acute or painless thyroiditis (bacterial/viral infection) and factitious hyperthyroidism (self medication of thyroid hormone preparation for slimming)
(Measurement of uptake is of limited value in diagnosing hypothyroidism.)
- Localising metastases associated with thyroid malignancies by performing whole body radioiodine imaging

Radioactive dosage of administration

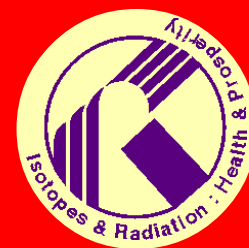
- Thyroid Uptake : 5 to 15 μ Ci (0.185 to 0.555 MBq)
- Scintiscanning : 50 to 100 μ Ci (1.85 to 3.7 MBq)

Capsules are colour coded for easy identification of activity

Description	: ¹³¹ I as Sodium iodide adsorbed on anhydrous sodium sulphate (adsorbent) in a hard gelatin capsule
Radioactive content	: Each capsule contains 10 μ Ci, 25 μ Ci or 50 μ Ci of ¹³¹ I on the reference date
Radionuclidic purity	: No other extraneous radionuclide is present
Radiochemical purity	: Above 95% as iodide
Storage	: Store at room temperature with adequate shielding.
Shelf life	: 30 days from the date of determining the radiochemical purity
Availability	: (Weekly) Ex-stock
Dosage and administration	: Administered orally, by swallowing the capsule with water
Available pack sizes	: Five capsules, each of 10 μ Ci (370 kBq), 25 μ Ci (925 kBq) or 50 μ Ci (1850 kBq) in a glass vial containing a silica gel bag



Radiopharmaceutical laboratory, BRIT, Vashi, Navi Mumbai.



BRIT

Code	Description	Activity
IOM-2	Capsules containing Na ¹³¹ I	10 μCi, 25 μCi, 50 μCi as on reference date

Physical characteristics of Iodine - 131

Half life	8.02 d
Decay mode	β ⁻
E _{β⁻} (%)	250 keV (9%), 335 keV (9%) 608 (81%), 812 keV (0.7%)
E _{β⁻} (Mean)	191.6 keV (89.3%)
E _γ (%)	284 keV (6.06%), 364 keV (81%), 637 keV (7.3%), 723 keV (1.8%)

Decay Chart of Iodine -131

Days	Multiplication Factor	CODE: IOM-2		
		10 μCi on Ref. date	25 μCi on Ref. date	50 μCi on Ref. date
-3	1.298	13	32.5	65
-2	1.190	12	30	60
-1	1.086	11	27	54
Reference date	1.00	10	25	50
1	0.92	9	23	46
2	0.84	8	21	42
3	0.77	8	19	39
4	0.71	7	18	36
5	0.65	7	16	33
6	0.60	6	15	30
7	0.55	6	14	28
8	0.50	5	13	25
9	0.46	5	12	23
10	0.42	4	11	21
11	0.39	4	10	20
12	0.36	4	9	18



Na¹³¹I Capsules Production Facility



For placing the orders and further details please contact
Customer Support Services Cell (CSSC)

Board of Radiation and Isotope Technology

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