

IOM-50

¹³¹I-META-IODOBENZYLGUANIDINE (¹³¹I-mIBG) INJECTION (DIAGNOSTIC -FOR INTRAVENOUS ADMINISTRATION)

INDICATIONS

Imaging to identify the location of

- Pheochromocytoma (tumour of neuroendocrine origin and a cause of essential hypertension), particularly when CT scan is negative or inconclusive
- Metastatic sites of neuroblastoma, and other endocrine-active tumours (Medullary carcinoma of thyroid)
- Multiple tumours or tumour that is not within adrenal gland (extra-adrenal tumour found within nervous tissue outside adrenal glands)
- Multiple endocrine neoplasia (Medullary carcinoma of thyroid, parathyroid hyperplasia)

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: 131 labelled meta-iodobenzylguanidine (131 l-mIBG) in acetate buffer/normal saline containing 0.9% (v/v) benzyl alcohol as preservative

Appearance

: Clear, colourless, aqueous preparation

Radioactive concentration

: 0.25 – 1.0 mCi/ml (9.25-37 MBq/ml) on the reference

No other extraneous radionuclide is present

Radionuclidic purity

рΗ

: Not less than 95% as mIBG

Radiochemical purity
Specific activity

: 0.5 - 15 mCi/μg (18.5-555 MBq/μg) on the reference

d:

Storage Shelf life : Store at < 0°C with adequate shielding

Availability

: To be used within 3 days from the reference date

Dosage and administration

: (Fortnightly) Ex-stock

Available pack sizes

Normal adult dose is 0.5-1 mCi administered intravenously over a duration of a few minutes

1 mCi (37 MBq), 2 mCi (74 MBq) or 3 mCi (111 MBq) Packed in dry ice



Radiopharmaceutical laboratory, BRIT, Vashi, Navi Mumbai.







Code	Description	Activity	
IOM-50	¹³¹ I labelled meta-iodobenzylguanidine (¹³¹ I-mIBG) Injection	1mCi, 2mCi, 3mCi as on the reference date	

Physical characteristics of Iodine-131

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

Decay Chart of Iodine-131

		CODE: IOM-50		
Days	Multiplication Factor	1 mCi on Ref. date	2 mCi on Ref. date	3 mCi on Ref. date
-3	1.298	1.30	2.60	3.9
-2	1.190	1.20	2.38	3.6
-1	1.086	1.10	2.17	3.3
Reference date	1.00	1.00	2.00	3.0
1	0.92	0.9	1.84	2.8
2	0.84	0.84	1.68	2.5
3	0.77	0.77	1.54	2.3



¹³¹I-mIBG Production - Preparatory work



¹³¹I-mIBG Production Plant



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

Board of Radiation and Isotope Technology

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