



PHM-3

³²P-SODIUM ORTHO-PHOSPHATE INJECTION (THERAPEUTIC -FOR INTRAVENOUS ADMINISTRATION)

INDICATIONS

- Palliative treatment of metastatic bone pain in breast/lung/prostate cancer patients in cases where analgesic medication is no more effective
- Treatment of polycythemia vera (over production of RBCs) and related disorders such as myelocytic leukemia and chronic lymphocytic leukemia
- Most frequently used when this is associated with thrombocythaemia (high blood platelet count : 60,000-80,000/ml) and high WBC count (>2400/ml)

Description	: ³² P as Sodium orthophosphate sterile solution in isotonic phosphate buffer/ normal saline solution
Appearance	: Clear, colourless, aqueous preparation
Radioactive content	: 2 – 10 mCi/ml on the reference date
Radionuclidic purity	: No other extraneous radionuclide is present
pH	: 6 – 8
Radiochemical purity	: Not less than 95% as orthophosphate.
Phosphorus content	: 1 mg/ml
Specific activity	: 2-10 mCi/mg on the reference date
Shelf life	: 60 days from the date of determining the radiochemical purity
Storage	: Store at room temperature
Availability	: Ex-stock, fortnightly production
Dosage and administration	: Intended dose administered intravenously is a matter for clinical judgment
Available pack sizes	: 5 mCi (185 MBq), 7 mCi (259 MBq), 10 mCi (370 MBq), 12 mCi (444 MBq), 14 mCi (518 MBq)



Radiopharmaceutical laboratory, BRIT, Vashi, Navi Mumbai.

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Code	Description	Activity
PHM-3	³² P-Sodium orthophosphate Injection	5 mCi, 7 mCi, 12 mCi, 14 mCi as on the reference date

Physical Characteristics of Phosphorus - 32

Half life	14.3 d
Decay mode	β^-
E_{β^-} (100%)	1.71 MeV (100%)

Decay Chart of Phosphorus - 32

Days	Multiplication Factor	5 mCi on Ref. date	7 mCi on Ref. date	12 mCi on Ref. date	14 mCi on Ref. date
-3	1.16	5.8	8.12	13.92	16.24
-2	1.10	5.5	7.70	13.20	15.40
-1	1.05	5.25	7.35	12.6	14.7
Reference date	1	5	7	12	14
1	0.95	4.75	6.65	11.40	13.30
2	0.91	4.55	6.37	10.92	12.74
3	0.87	4.35	6.09	10.44	12.18
4	0.82	4.10	5.74	9.84	11.48
5	0.79	3.95	5.53	9.48	11.06
6	0.75	3.75	5.25	9.0	10.5
7	0.71	3.55	4.97	8.52	9.94
8	0.68	3.40	4.76	8.16	9.52
9	0.65	3.25	4.55	7.80	9.1
10	0.62	3.1	4.34	7.44	8.68
11	0.59	2.95	4.13	7.08	8.26
12	0.56	2.80	3.92	6.72	7.84
13	0.55	2.75	3.85	6.6	7.77
14	0.51	2.55	3.57	6.12	7.14



³²P-Sodium orthophosphate Production Facility



Sterilization of ³²P-Sodium orthophosphate



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

Board of Radiation and Isotope Technology

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