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Ophthalmic applicators

^{106}Ru

Application:

Ophthalmic applicators with $^{106}\text{Ru}+^{106}\text{Rh}$ are used for application radiotherapy of visual organs' tumors.

Description:

Ophthalmic applicator is a closed sealed radioactive source.

Characteristics:

Radionuclides at the substrate	$^{106}\text{Ru} + ^{106}\text{Rh}$
Type of radiation, energy	$E_{\beta}^{^{106}\text{Ru}} = 39.4 \text{ keV}$ $E_{\beta}^{^{106}\text{Rh}} = 3540.0 \text{ keV}$
Radionuclides half-life period	$T_{1/2} (^{106}\text{Ru}) = 373.59 \text{ days}$ $T_{1/2} (^{106}\text{Rh}) = 29.9 \text{ sec}$
Absorbed dose rate, average at the work surface (applicators type R3-R7), cGy per hour, not less than	1200
Activity of ophthalmic applicators type R3-R7, Bq, not less than	2×10^7
MPI, average at the work surface (applicator type R2), cGy per hour, not less than	6000
Activity of ophthalmic applicators type R2, Bq, not less than	2×10^8
Work life, months	12
Dimentions:	
Ophthalmic applicator type:	R2 R3 R4 R5 R6 R7
Diameter, mm	17 17 17 22 22 19
Holder height, mm	- 2 5 2 5 4
Radius of the lid's superficies, mm	12-14, all types



Transportation:

shipping container type A

ISO 9001 certified

Isotope JSC
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