



CALIBRATION CERTIFICATE

Type: **BDKG-23/1**Date of calibration: 15.02.2021.S/N: 117

Measurement limits:

BDKG-23/1: v 0.1 μ Sv/h – 100 Sv/h:

Measurement error:

BDKG-23/1: $\pm 20\%$

Operating conditions:

- Air temperature +19,9 °C
- Atmospheric pressure 98,5 kPa
- Relative humidity 73,4 %
- Gamma radiation background 90,6 nSv/h

The instrument is calibrated on AT-130 standard dosimetry facility, No. 015, error $\pm 4\%$ (Certificate of Compliance No. 210-1427/18 as of 23.10.2018 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia); the instrument is calibrated on AT-110 standard dosimetry facility, No.013, error $\pm 5\%$ (Certificate of Compliance No.210-1426/18 as of 22.10.2018 issued by FGUP «D.I.Mendeleyev VNIIM», St.Petersburg, Russia)

Calibration data

BDKG-23/1 (v) sn: 117

Dose rate at check point $\dot{H}_0(10)$	Radiation source number	Distance to source, R, cm	Dose rate measurement at check point,				Relative gamma radiation dose rate measurement error $\theta_{\text{mpi}}, \%$	Confidence limit of the intrinsic relative error $\Delta_i, \%$ during calibration	Limits of intrinsic relative error, % not above	
			Back-ground, nSv/h	Measured value $\dot{H}^*(10)$						Average value, $\dot{H}(10)$
				H_1	H_2	H_3				
0,7 μ Sv/h	0HA	232.1	90,6	0,70	0,69	0,71	0,70	0,00	5,50	±20
7 μ Sv/h	0HA	74.5	—	7,11	6,98	6,91	7,00	0,00	5,50	
70 μ Sv/h	9XK	161.3	—	72,3	72,8	68,0	71,0	1,43	5,61	
0.7 mSv/h	9XK	51.8	—	0,70	0,71	0,72	0,71	1,43	5,61	
7,0 mSv/h	043	348.7	—	6,79	6,84	7,07	6,90	-1,43	4,54	
70 mSv/h	043	112,0	—	71,6	72,0	66,4	70,0	0,00	4,40	
0,7 Sv/h	163	231.1	—	0,69	0,71	0,70	0,70	0,00	4,40	
7 Sv/h	163	74.5	—	6,92	6,97	7,11	7,00	0,00	4,40	
40 Sv/h	163	32.2	—	39,4	40,1	40,5	40,0	0,00	4,40	

Calibrated by:

V. Pisarenko

Technical control:

N. Kurbatova


(signature)


(signature) **ATOMTEX®**