Standard Beam Codes for Certified Calibration offered at Radcal -

Modality	Type	Model	Beam Code*	
Mammography	Ion Chambers	-60E	M50	
		-6M	M30***	
	Multisensors	-M, -M+, -DM+	MS-M***:	RQR-M-P1
				RQR-M-P3
				RQR-M-P4
	Dose Diode	-M	RQR-M-3	
Diagnostic	Ion Chambers	-6	S60	
		-3CT, -60, -60E, -0.6CT, -10, -180, -1800	M150	
		-60DAP, -1800	RQA-8	
		-3CT, -6	M100	
		-3CT	RQT-9	
		-500	RQR-6	
		-3CT, -6, -0.6CT, -0.6, -180, -1800, -0.18	M200	
	Multisensors	-W, -D, -D+, -DM+	MS-D:	RQR-3
				RQR-9
				RQA-4
	Dose Diode	-W, -WL	RQR-6	
Gamma Ray	Ion Chambers	-6, -0.6, -0.18	CO60-H1	
		-60, -180, -1800	CO60-L1	
		-3, -6, -60, -10, -180	CO60-L2	
		-60, -180	CS137-H2	
		-6, -0.6, -0.18	CS137-H3	
		-1800	CS137-M1	

*Alternate beam codes may be available at additional cost - inquire.
*** Standard Beam Code used for MQSA calibrations

Beam Codes -

	Radcal Code	Energy (kVp)	Added Filter[1]		HVL		HC[2]
			Al (mm)	Cu (mm)	Al (mm)	Cu (mm)	
Mammography	**M30**	30	0.50[4]	-	0.37	-	0.68
	M50	50	1.09[4]	-	1.02	-	0.68
	RQR-M-P1[3]	25	32.6 µm Mo[4]	-	0.33	-	-
	RQR-M-P3[3]	30	32.6 µm Mo[4]	-	0.38	-	-
	RQR-M-P4[3]	35	32.6 µm Mo[4]	-	0.42	-	-
	RQR-M-3	30	32.6 µm Mo[4]	-	0.35	-	-
Diagnostic	**S60**	60	2.8[5]	-	2.9	0.1	0.75
	M100	100	3.2[5]	-	5.3	0.2	0.75
	M150	150	1.8[5]	0.26	10.1	0.7	0.87
	M200	200	2.0	1.25	14.9	1.7	0.95
	RQA-8	100	34.2[5]	-	10.4	-	-
	RQR-3	50	2.6[5]	-	1.8	-	0.76
	RQR-9	120	3.3[5]	-	5.0	-	0.65
	RQA-4	60	16.1[5]	-	5.5	-	-
	RQR-6	80	3.0[5]	-	3.0	-	0.66
	RQT-9	120	1.0[5]	0.25	8.5	-	-

		Distance (mm)	Rate (mGy/min) (Update 1/2026)
Gamma Ray (for quality assurance applications)	**CO60-H1**	800	~12
	CO60-L1	800	~0.01
	CS137-H2	800	~1.5
	CS137-H3	500	~3.0
	CS137-M1	1500	~0.4

[1] The additional filtration value does not include the inherent filtration.
[2] HC is the homogeneity coefficient (1st hvl/2nd hvl)
[3] 2.25 mm polycarbonate included to simulate a typical mammography machine paddle.
[4] Inherent filter - 0.6 mm Be
[5] Inherent filter - 1.5 mm Al

426 W. Duarte Rd., Monrovia, CA 91016
T:(626)357-7921 F:(626)357-8863 E:service.radcal@iba-group.com