

SIR-Spheres® Y-90
resin microspheres
Activity Chart
(SIR-Y001 5 mL vial)



SIR-Y001
3 DPCSIR-Y001
2 DPCSIR-Y001
1 DPCSIR-Y001
Day of CalibrationSIR-Y001
Post-Calibration

Indication

SIR-Spheres Y-90 resin microspheres (SIR-Y001 5 mL vial)

DAY THREE PRE-CALIBRATION

	Elapsed Time (In hours)	Decay Correction Factor	SIR-Y001 Activity in GBq	SIR-Y001 Activity in GBq per .5mL	SIR-Y001 Activity in mCi	SIR-Y001 Activity in mCi per .5mL	SIR-Y001 Specific Activity Bq Per Sphere^	SIR-Y001 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-90.0	2.646	7.94	0.79	214.58	21.46	180.44	5.54
1:00 AM	-89.0	2.618	7.85	0.79	212.27	21.23	178.50	5.60
2:00 AM	-88.0	2.590	7.77	0.78	209.99	21.00	176.58	5.66
3:00 AM	-87.0	2.562	7.69	0.77	207.73	20.77	174.68	5.72
4:00 AM	-86.0	2.534	7.60	0.76	205.49	20.55	172.80	5.79
5:00 AM	-85.0	2.507	7.52	0.75	203.28	20.33	170.94	5.85
6:00 AM	-84.0	2.480	7.44	0.74	201.10	20.11	169.10	5.91
7:00 AM	-83.0	2.454	7.36	0.74	198.93	19.89	167.29	5.98
8:00 AM	-82.0	2.427	7.28	0.73	196.79	19.68	165.49	6.04
9:00 AM	-81.0	2.401	7.20	0.72	194.68	19.47	163.71	6.11
10:00 AM	-80.0	2.375	7.13	0.71	192.58	19.26	161.95	6.17
11:00 AM	-79.0	2.350	7.05	0.70	190.51	19.05	160.20	6.24
12:00 PM	-78.0	2.324	6.97	0.70	188.46	18.85	158.48	6.31
1:00 PM	-77.0	2.299	6.90	0.69	186.44	18.64	156.78	6.38
2:00 PM	-76.0	2.275	6.82	0.68	184.43	18.44	155.09	6.45
3:00 PM	-75.0	2.250	6.75	0.68	182.45	18.24	153.42	6.52
4:00 PM	-74.0	2.226	6.68	0.67	180.49	18.05	151.77	6.59
5:00 PM	-73.0	2.202	6.61	0.66	178.54	17.85	150.14	6.66
6:00 PM	-72.0	2.178	6.54	0.65	176.62	17.66	148.52	6.73
7:00 PM	-71.0	2.155	6.46	0.65	174.72	17.47	146.93	6.81
8:00 PM	-70.0	2.132	6.40	0.64	172.85	17.28	145.35	6.88
9:00 PM	-69.0	2.109	6.33	0.63	170.99	17.10	143.78	6.95
10:00 PM	-68.0	2.086	6.26	0.63	169.15	16.91	142.24	7.03
11:00 PM	-67.0	2.064	6.19	0.62	167.33	16.73	140.71	7.11

^On average there are 44 million spheres in each SIR-Y001 delivery vial with a standard deviation of 2.6 million microspheres (FR-006).

SIR-Spheres Y-90 resin microspheres (SIR-Y001 5 mL vial)

DAY TWO PRE-CALIBRATION

	Elapsed Time (In hours)	Decay Correction Factor	SIR-Y001 Activity in GBq	SIR-Y001 Activity in GBq per .5mL	SIR-Y001 Activity in mCi	SIR-Y001 Activity in mCi per .5mL	SIR-Y001 Specific Activity Bq Per Sphere^	SIR-Y001 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-66.0	2.042	6.12	0.61	165.53	16.55	139.19	7.18
1:00 AM	-65.0	2.020	6.06	0.61	163.75	16.37	137.70	7.26
2:00 AM	-64.0	1.998	5.99	0.60	161.99	16.20	136.22	7.34
3:00 AM	-63.0	1.976	5.93	0.59	160.24	16.02	134.75	7.42
4:00 AM	-62.0	1.955	5.87	0.59	158.52	15.85	133.30	7.50
5:00 AM	-61.0	1.934	5.80	0.58	156.82	15.68	131.87	7.58
6:00 AM	-60.0	1.913	5.74	0.57	155.13	15.51	130.45	7.67
7:00 AM	-59.0	1.893	5.68	0.57	153.46	15.35	129.05	7.75
8:00 AM	-58.0	1.872	5.62	0.56	151.81	15.18	127.66	7.83
9:00 AM	-57.0	1.852	5.56	0.56	150.18	15.02	126.29	7.92
10:00 AM	-56.0	1.832	5.50	0.55	148.56	14.86	124.93	8.00
11:00 AM	-55.0	1.813	5.44	0.54	146.96	14.70	123.58	8.09
12:00 PM	-54.0	1.793	5.38	0.54	145.38	14.54	122.25	8.18
1:00 PM	-53.0	1.774	5.32	0.53	143.82	14.38	120.94	8.27
2:00 PM	-52.0	1.755	5.26	0.53	142.27	14.23	119.64	8.36
3:00 PM	-51.0	1.736	5.21	0.52	140.74	14.07	118.35	8.45
4:00 PM	-50.0	1.717	5.15	0.52	139.23	13.92	117.08	8.54
5:00 PM	-49.0	1.699	5.10	0.51	137.73	13.77	115.82	8.63
6:00 PM	-48.0	1.680	5.04	0.50	136.25	13.63	114.57	8.73
7:00 PM	-47.0	1.662	4.99	0.50	134.79	13.48	113.34	8.82
8:00 PM	-46.0	1.644	4.93	0.49	133.34	13.33	112.12	8.92
9:00 PM	-45.0	1.627	4.88	0.49	131.90	13.19	110.92	9.02
10:00 PM	-44.0	1.609	4.83	0.48	130.48	13.05	109.72	9.11
11:00 PM	-43.0	1.592	4.78	0.48	129.08	12.91	108.54	9.21

SIR-Y001
3 DPC

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2 DPC

SIR-Y001
1 DPC

SIR-Y001
Day of Calibration

SIR-Y001
Post-Calibration

Indication

^On average there are 44 million spheres in each SIR-Y001 delivery vial with a standard deviation of 2.6 million microspheres (FR-006).

SIR-Spheres Y-90 resin microspheres (SIR-Y001 5 mL vial)

SIR-Y001
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DAY ONE PRE-CALIBRATION

	Elapsed Time (In hours)	Decay Correction Factor	SIR-Y001 Activity in GBq	SIR-Y001 Activity in GBq per .5mL	SIR-Y001 Activity in mCi	SIR-Y001 Activity in mCi per .5mL	SIR-Y001 Specific Activity Bq Per Sphere^	SIR-Y001 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-42.0	1.575	4.72	0.47	127.69	12.77	107.38	9.31
1:00 AM	-41.0	1.558	4.67	0.47	126.32	12.63	106.22	9.41
2:00 AM	-40.0	1.541	4.62	0.46	124.96	12.50	105.08	9.52
3:00 AM	-39.0	1.525	4.57	0.46	123.62	12.36	103.95	9.62
4:00 AM	-38.0	1.508	4.52	0.45	122.29	12.23	102.83	9.72
5:00 AM	-37.0	1.492	4.48	0.45	120.97	12.10	101.73	9.83
6:00 AM	-36.0	1.476	4.43	0.44	119.67	11.97	100.63	9.94
7:00 AM	-35.0	1.460	4.38	0.44	118.38	11.84	99.55	10.05
8:00 AM	-34.0	1.444	4.33	0.43	117.11	11.71	98.48	10.15
9:00 AM	-33.0	1.429	4.29	0.43	115.85	11.58	97.42	10.26
10:00 AM	-32.0	1.413	4.24	0.42	114.60	11.46	96.37	10.38
11:00 AM	-31.0	1.398	4.19	0.42	113.37	11.34	95.34	10.49
12:00 PM	-30.0	1.383	4.15	0.41	112.15	11.22	94.31	10.60
1:00 PM	-29.0	1.368	4.10	0.41	110.95	11.09	93.30	10.72
2:00 PM	-28.0	1.354	4.06	0.41	109.75	10.98	92.29	10.84
3:00 PM	-27.0	1.339	4.02	0.40	108.57	10.86	91.30	10.95
4:00 PM	-26.0	1.325	3.97	0.40	107.40	10.74	90.32	11.07
5:00 PM	-25.0	1.310	3.93	0.39	106.25	10.62	89.35	11.19
6:00 PM	-24.0	1.296	3.89	0.39	105.11	10.51	88.39	11.31
7:00 PM	-23.0	1.282	3.85	0.38	103.98	10.40	87.43	11.44
8:00 PM	-22.0	1.269	3.81	0.38	102.86	10.29	86.49	11.56
9:00 PM	-21.0	1.255	3.76	0.38	101.75	10.18	85.56	11.69
10:00 PM	-20.0	1.241	3.72	0.37	100.66	10.07	84.64	11.81
11:00 PM	-19.0	1.228	3.68	0.37	99.57	9.96	83.73	11.94

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SIR-Spheres Y-90 resin microspheres (SIR-Y001 5 mL vial)

DAY OF CALIBRATION

	Elapsed Time (In hours)	Decay Correction Factor	SIR-Y001 Activity in GBq	SIR-Y001 Activity in GBq per .5mL	SIR-Y001 Activity in mCi	SIR-Y001 Activity in mCi per .5mL	SIR-Y001 Specific Activity Bq Per Sphere^	SIR-Y001 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-18.0	1.215	3.64	0.36	98.50	9.85	82.83	12.07
1:00 AM	-17.0	1.202	3.61	0.36	97.44	9.74	81.94	12.20
2:00 AM	-16.0	1.189	3.57	0.36	96.40	9.64	81.06	12.34
3:00 AM	-15.0	1.176	3.53	0.35	95.36	9.54	80.19	12.47
4:00 AM	-14.0	1.163	3.49	0.35	94.33	9.43	79.33	12.61
5:00 AM	-13.0	1.151	3.45	0.35	93.32	9.33	78.47	12.74
6:00 AM	-12.0	1.139	3.42	0.34	92.32	9.23	77.63	12.88
7:00 AM	-11.0	1.126	3.38	0.34	91.32	9.13	76.79	13.02
8:00 AM	-10.0	1.114	3.34	0.33	90.34	9.03	75.97	13.16
9:00 AM	-9.0	1.102	3.31	0.33	89.37	8.94	75.15	13.31
10:00 AM	-8.0	1.090	3.27	0.33	88.41	8.84	74.34	13.45
11:00 AM	-7.0	1.079	3.24	0.32	87.46	8.75	73.54	13.60
12:00 PM	-6.0	1.067	3.20	0.32	86.52	8.65	72.75	13.75
1:00 PM	-5.0	1.056	3.17	0.32	85.59	8.56	71.97	13.89
2:00 PM	-4.0	1.044	3.13	0.31	84.67	8.47	71.20	14.05
3:00 PM	-3.0	1.033	3.10	0.31	83.75	8.38	70.43	14.20
4:00 PM	-2.0	1.022	3.07	0.31	82.85	8.29	69.67	14.35
5:00 PM	-1.0	1.011	3.03	0.30	81.96	8.20	68.92	14.51
6:00 PM	0.0	1.000	3.00	0.30	81.08	8.11	68.18	14.67
7:00 PM	1.0	0.989	2.97	0.30	80.21	8.02	67.45	14.83
8:00 PM	2.0	0.979	2.94	0.29	79.35	7.93	66.72	14.99
9:00 PM	3.0	0.968	2.90	0.29	78.49	7.85	66.01	15.15
10:00 PM	4.0	0.958	2.87	0.29	77.65	7.76	65.30	15.31
11:00 PM	5.0	0.947	2.84	0.28	76.81	7.68	64.59	15.48

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Post-Calibration

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SIR-Spheres Y-90 resin microspheres (SIR-Y001 5 mL vial)

POST-CALIBRATION

	Elapsed Time (In hours)	Decay Correction Factor	SIR-Y001 Activity in GBq	SIR-Y001 Activity in GBq per .5mL	SIR-Y001 Activity in mCi	SIR-Y001 Activity in mCi per .5mL	SIR-Y001 Specific Activity Bq Per Sphere^	SIR-Y001 SIR-Spheres per GBq (reported in millions^)
12:00 AM	6.0	0.937	2.81	0.28	75.99	7.60	63.90	15.65
1:00 AM	7.0	0.927	2.78	0.28	75.17	7.52	63.21	15.82
2:00 AM	8.0	0.917	2.75	0.28	74.36	7.44	62.53	15.99
3:00 AM	9.0	0.907	2.72	0.27	73.56	7.36	61.86	16.17
4:00 AM	10.0	0.898	2.69	0.27	72.77	7.28	61.19	16.34
5:00 AM	11.0	0.888	2.66	0.27	71.99	7.20	60.54	16.52
6:00 AM	12.0	0.878	2.63	0.26	71.21	7.12	59.88	16.70
7:00 AM	13.0	0.869	2.61	0.26	70.45	7.04	59.24	16.88
8:00 AM	14.0	0.860	2.58	0.26	69.69	6.97	58.60	17.06
9:00 AM	15.0	0.850	2.55	0.26	68.94	6.89	57.97	17.25
10:00 AM	16.0	0.841	2.52	0.25	68.20	6.82	57.35	17.44
11:00 AM	17.0	0.832	2.50	0.25	67.47	6.75	56.73	17.63
12:00 PM	18.0	0.823	2.47	0.25	66.74	6.67	56.12	17.82
1:00 PM	19.0	0.814	2.44	0.24	66.02	6.60	55.52	18.01
2:00 PM	20.0	0.806	2.42	0.24	65.31	6.53	54.92	18.21
3:00 PM	21.0	0.797	2.39	0.24	64.61	6.46	54.33	18.41
4:00 PM	22.0	0.788	2.36	0.24	63.91	6.39	53.75	18.61
5:00 PM	23.0	0.780	2.34	0.23	63.23	6.32	53.17	18.81
6:00 PM	24.0	0.771	2.31	0.23	62.55	6.25	52.60	19.01

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SIR-Y001
Day of Calibration

SIR-Y001
Post-Calibration

Indication

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SIR-Y001
Post-Calibration

Indication

Intended Use / Indications For Use: SIR-Spheres Y-90 resin microspheres are approved or licensed for use in Canada for the treatment of patients with advanced non-operable liver cancer.

Side Effects: Common side effects are fever, transient decrease of hemoglobin, mild to moderate abnormality of liver function tests, abdominal pain, nausea, vomiting, and diarrhea. Potential serious effects due to exposure to high radiation include acute pancreatitis, radiation pneumonitis, acute gastritis, radiation hepatitis, and acute cholecystitis. **Consult the Instructions for Use (www.sirtex.com/sir-spheres/risk_adverse-events/ca) for a complete listing of indications, contraindications, side effects, warnings, and precautions.**



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