



**FLEXdose SELECT**

# Activity Chart

(SIR-Y002 3 mL vial)



# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY FIVE PRE-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-138.0	4.447	8.00	1.33	216.35	36.06	293.22	3.41
1:00 AM	-137.0	4.399	7.92	1.32	214.02	35.67	290.07	3.45
2:00 AM	-136.0	4.352	7.83	1.31	211.72	35.29	286.95	3.48
3:00 AM	-135.0	4.305	7.75	1.29	209.44	34.91	283.86	3.52
4:00 AM	-134.0	4.259	7.67	1.28	207.19	34.53	280.81	3.56
5:00 AM	-133.0	4.213	7.58	1.26	204.96	34.16	277.79	3.60
6:00 AM	-132.0	4.168	7.50	1.25	202.76	33.79	274.80	3.64
7:00 AM	-131.0	4.123	7.42	1.24	200.58	33.43	271.84	3.68
8:00 AM	-130.0	4.079	7.34	1.22	198.42	33.07	268.92	3.72
9:00 AM	-129.0	4.035	7.26	1.21	196.29	32.71	266.03	3.76
10:00 AM	-128.0	3.991	7.18	1.20	194.17	32.36	263.17	3.80
11:00 AM	-127.0	3.948	7.11	1.18	192.09	32.01	260.34	3.84
12:00 PM	-126.0	3.906	7.03	1.17	190.02	31.67	257.54	3.88
1:00 PM	-125.0	3.864	6.96	1.16	187.98	31.33	254.77	3.93
2:00 PM	-124.0	3.822	6.88	1.15	185.95	30.99	252.03	3.97
3:00 PM	-123.0	3.781	6.81	1.13	183.95	30.66	249.32	4.01
4:00 PM	-122.0	3.741	6.73	1.12	181.98	30.33	246.63	4.05
5:00 PM	-121.0	3.700	6.66	1.11	180.02	30.00	243.98	4.10
6:00 PM	-120.0	3.661	6.59	1.10	178.08	29.68	241.36	4.14
7:00 PM	-119.0	3.621	6.52	1.09	176.17	29.36	238.76	4.19
8:00 PM	-118.0	3.582	6.45	1.07	174.27	29.05	236.19	4.23
9:00 PM	-117.0	3.544	6.38	1.06	172.40	28.73	233.65	4.28
10:00 PM	-116.0	3.506	6.31	1.05	170.54	28.42	231.14	4.33
11:00 PM	-115.0	3.468	6.24	1.04	168.71	28.12	228.65	4.37

SIR-Y002  
5 DPC

SIR-Y002  
4 DPC

SIR-Y002  
3 DPC

SIR-Y002  
2 DPC

SIR-Y002  
1 DPC

SIR-Y002  
Day of Calibration

SIR-Y002  
Post-Calibration

Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY FOUR PRE-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-114.0	3.431	6.18	1.03	166.90	27.82	226.20	4.42
1:00 AM	-113.0	3.394	6.11	1.02	165.10	27.52	223.76	4.47
2:00 AM	-112.0	3.357	6.04	1.01	163.32	27.22	221.36	4.52
3:00 AM	-111.0	3.321	5.98	1.00	161.57	26.93	218.97	4.57
4:00 AM	-110.0	3.285	5.91	0.99	159.83	26.64	216.62	4.62
5:00 AM	-109.0	3.250	5.85	0.98	158.11	26.35	214.29	4.67
6:00 AM	-108.0	3.215	5.79	0.96	156.41	26.07	211.99	4.72
7:00 AM	-107.0	3.181	5.72	0.95	154.73	25.79	209.71	4.77
8:00 AM	-106.0	3.146	5.66	0.94	153.06	25.51	207.45	4.82
9:00 AM	-105.0	3.112	5.60	0.93	151.42	25.24	205.22	4.87
10:00 AM	-104.0	3.079	5.54	0.92	149.79	24.96	203.01	4.93
11:00 AM	-103.0	3.046	5.48	0.91	148.18	24.70	200.83	4.98
12:00 PM	-102.0	3.013	5.42	0.90	146.58	24.43	198.67	5.03
1:00 PM	-101.0	2.981	5.37	0.89	145.01	24.17	196.53	5.09
2:00 PM	-100.0	2.949	5.31	0.88	143.45	23.91	194.42	5.14
3:00 PM	-99.0	2.917	5.25	0.88	141.91	23.65	192.33	5.20
4:00 PM	-98.0	2.886	5.19	0.87	140.38	23.40	190.26	5.26
5:00 PM	-97.0	2.855	5.14	0.86	138.87	23.14	188.21	5.31
6:00 PM	-96.0	2.824	5.08	0.85	137.38	22.90	186.19	5.37
7:00 PM	-95.0	2.793	5.03	0.84	135.90	22.65	184.18	5.43
8:00 PM	-94.0	2.763	4.97	0.83	134.44	22.41	182.20	5.49
9:00 PM	-93.0	2.734	4.92	0.82	132.99	22.17	180.24	5.55
10:00 PM	-92.0	2.704	4.87	0.81	131.56	21.93	178.31	5.61
11:00 PM	-91.0	2.675	4.82	0.80	130.15	21.69	176.39	5.67

SIR-Y002  
5 DPC

SIR-Y002  
4 DPC

SIR-Y002  
3 DPC

SIR-Y002  
2 DPC

SIR-Y002  
1 DPC

SIR-Y002  
Day of Calibration

SIR-Y002  
Post-Calibration

Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY THREE PRE-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-90.0	2.646	4.76	0.79	128.75	21.46	174.49	5.73
1:00 AM	-89.0	2.618	4.71	0.79	127.36	21.23	172.61	5.79
2:00 AM	-88.0	2.590	4.66	0.78	125.99	21.00	170.76	5.86
3:00 AM	-87.0	2.562	4.61	0.77	124.64	20.77	168.92	5.92
4:00 AM	-86.0	2.534	4.56	0.76	123.30	20.55	167.10	5.98
5:00 AM	-85.0	2.507	4.51	0.75	121.97	20.33	165.31	6.05
6:00 AM	-84.0	2.480	4.46	0.74	120.66	20.11	163.53	6.12
7:00 AM	-83.0	2.454	4.42	0.74	119.36	19.89	161.77	6.18
8:00 AM	-82.0	2.427	4.37	0.73	118.08	19.68	160.03	6.25
9:00 AM	-81.0	2.401	4.32	0.72	116.81	19.47	158.31	6.32
10:00 AM	-80.0	2.375	4.28	0.71	115.55	19.26	156.61	6.39
11:00 AM	-79.0	2.350	4.23	0.70	114.31	19.05	154.92	6.45
12:00 PM	-78.0	2.324	4.18	0.70	113.08	18.85	153.26	6.53
1:00 PM	-77.0	2.299	4.14	0.69	111.86	18.64	151.61	6.60
2:00 PM	-76.0	2.275	4.09	0.68	110.66	18.44	149.98	6.67
3:00 PM	-75.0	2.250	4.05	0.68	109.47	18.24	148.36	6.74
4:00 PM	-74.0	2.226	4.01	0.67	108.29	18.05	146.77	6.81
5:00 PM	-73.0	2.202	3.96	0.66	107.13	17.85	145.19	6.89
6:00 PM	-72.0	2.178	3.92	0.65	105.97	17.66	143.63	6.96
7:00 PM	-71.0	2.155	3.88	0.65	104.83	17.47	142.08	7.04
8:00 PM	-70.0	2.132	3.84	0.64	103.71	17.28	140.56	7.11
9:00 PM	-69.0	2.109	3.80	0.63	102.59	17.10	139.04	7.19
10:00 PM	-68.0	2.086	3.76	0.63	101.49	16.91	137.55	7.27
11:00 PM	-67.0	2.064	3.71	0.62	100.40	16.73	136.07	7.35

SIR-Y002 5 DPC
SIR-Y002 4 DPC
SIR-Y002 3 DPC
SIR-Y002 2 DPC
SIR-Y002 1 DPC
SIR-Y002 Day of Calibration
SIR-Y002 Post-Calibration
Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY TWO PRE-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-66.0	2.042	3.67	0.61	99.32	16.55	134.61	7.43
1:00 AM	-65.0	2.020	3.64	0.61	98.25	16.37	133.16	7.51
2:00 AM	-64.0	1.998	3.60	0.60	97.19	16.20	131.73	7.59
3:00 AM	-63.0	1.976	3.56	0.59	96.15	16.02	130.31	7.67
4:00 AM	-62.0	1.955	3.52	0.59	95.11	15.85	128.91	7.76
5:00 AM	-61.0	1.934	3.48	0.58	94.09	15.68	127.52	7.84
6:00 AM	-60.0	1.913	3.44	0.57	93.08	15.51	126.15	7.93
7:00 AM	-59.0	1.893	3.41	0.57	92.08	15.35	124.79	8.01
8:00 AM	-58.0	1.872	3.37	0.56	91.09	15.18	123.45	8.10
9:00 AM	-57.0	1.852	3.33	0.56	90.11	15.02	122.12	8.19
10:00 AM	-56.0	1.832	3.30	0.55	89.14	14.86	120.81	8.28
11:00 AM	-55.0	1.813	3.26	0.54	88.18	14.70	119.51	8.37
12:00 PM	-54.0	1.793	3.23	0.54	87.23	14.54	118.22	8.46
1:00 PM	-53.0	1.774	3.19	0.53	86.29	14.38	116.95	8.55
2:00 PM	-52.0	1.755	3.16	0.53	85.36	14.23	115.70	8.64
3:00 PM	-51.0	1.736	3.12	0.52	84.45	14.07	114.45	8.74
4:00 PM	-50.0	1.717	3.09	0.52	83.54	13.92	113.22	8.83
5:00 PM	-49.0	1.699	3.06	0.51	82.64	13.77	112.00	8.93
6:00 PM	-48.0	1.680	3.02	0.50	81.75	13.63	110.80	9.03
7:00 PM	-47.0	1.662	2.99	0.50	80.87	13.48	109.61	9.12
8:00 PM	-46.0	1.644	2.96	0.49	80.00	13.33	108.43	9.22
9:00 PM	-45.0	1.627	2.93	0.49	79.14	13.19	107.26	9.32
10:00 PM	-44.0	1.609	2.90	0.48	78.29	13.05	106.11	9.42
11:00 PM	-43.0	1.592	2.87	0.48	77.45	12.91	104.97	9.53

SIR-Y002 5 DPC
SIR-Y002 4 DPC
SIR-Y002 3 DPC
SIR-Y002 2 DPC
SIR-Y002 1 DPC
SIR-Y002 Day of Calibration
SIR-Y002 Post-Calibration
Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY ONE PRE-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-42.0	1.575	2.83	0.47	76.61	12.77	103.84	9.63
1:00 AM	-41.0	1.558	2.80	0.47	75.79	12.63	102.72	9.74
2:00 AM	-40.0	1.541	2.77	0.46	74.98	12.50	101.62	9.84
3:00 AM	-39.0	1.525	2.74	0.46	74.17	12.36	100.52	9.95
4:00 AM	-38.0	1.508	2.71	0.45	73.37	12.23	99.44	10.06
5:00 AM	-37.0	1.492	2.69	0.45	72.58	12.10	98.37	10.17
6:00 AM	-36.0	1.476	2.66	0.44	71.80	11.97	97.31	10.28
7:00 AM	-35.0	1.460	2.63	0.44	71.03	11.84	96.27	10.39
8:00 AM	-34.0	1.444	2.60	0.43	70.27	11.71	95.23	10.50
9:00 AM	-33.0	1.429	2.57	0.43	69.51	11.58	94.21	10.61
10:00 AM	-32.0	1.413	2.54	0.42	68.76	11.46	93.19	10.73
11:00 AM	-31.0	1.398	2.52	0.42	68.02	11.34	92.19	10.85
12:00 PM	-30.0	1.383	2.49	0.41	67.29	11.22	91.20	10.96
1:00 PM	-29.0	1.368	2.46	0.41	66.57	11.09	90.22	11.08
2:00 PM	-28.0	1.354	2.44	0.41	65.85	10.98	89.25	11.20
3:00 PM	-27.0	1.339	2.41	0.40	65.14	10.86	88.29	11.33
4:00 PM	-26.0	1.325	2.38	0.40	64.44	10.74	87.34	11.45
5:00 PM	-25.0	1.310	2.36	0.39	63.75	10.62	86.40	11.57
6:00 PM	-24.0	1.296	2.33	0.39	63.06	10.51	85.47	11.70
7:00 PM	-23.0	1.282	2.31	0.38	62.39	10.40	84.55	11.83
8:00 PM	-22.0	1.269	2.28	0.38	61.71	10.29	83.64	11.96
9:00 PM	-21.0	1.255	2.26	0.38	61.05	10.18	82.74	12.09
10:00 PM	-20.0	1.241	2.23	0.37	60.39	10.07	81.85	12.22
11:00 PM	-19.0	1.228	2.21	0.37	59.74	9.96	80.97	12.35

SIR-Y002 5 DPC
SIR-Y002 4 DPC
SIR-Y002 3 DPC
SIR-Y002 2 DPC
SIR-Y002 1 DPC
SIR-Y002 Day of Calibration
SIR-Y002 Post-Calibration
Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

# SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

## DAY OF CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-18.0	1.215	2.19	0.36	59.10	9.85	80.10	12.48
1:00 AM	-17.0	1.202	2.16	0.36	58.47	9.74	79.24	12.62
2:00 AM	-16.0	1.189	2.14	0.36	57.84	9.64	78.39	12.76
3:00 AM	-15.0	1.176	2.12	0.35	57.22	9.54	77.54	12.90
4:00 AM	-14.0	1.163	2.09	0.35	56.60	9.43	76.71	13.04
5:00 AM	-13.0	1.151	2.07	0.35	55.99	9.33	75.89	13.18
6:00 AM	-12.0	1.139	2.05	0.34	55.39	9.23	75.07	13.32
7:00 AM	-11.0	1.126	2.03	0.34	54.79	9.13	74.26	13.47
8:00 AM	-10.0	1.114	2.01	0.33	54.20	9.03	73.46	13.61
9:00 AM	-9.0	1.102	1.98	0.33	53.62	8.94	72.67	13.76
10:00 AM	-8.0	1.090	1.96	0.33	53.04	8.84	71.89	13.91
11:00 AM	-7.0	1.079	1.94	0.32	52.47	8.75	71.12	14.06
12:00 PM	-6.0	1.067	1.92	0.32	51.91	8.65	70.35	14.21
1:00 PM	-5.0	1.056	1.90	0.32	51.35	8.56	69.60	14.37
2:00 PM	-4.0	1.044	1.88	0.31	50.80	8.47	68.85	14.52
3:00 PM	-3.0	1.033	1.86	0.31	50.25	8.38	68.11	14.68
4:00 PM	-2.0	1.022	1.84	0.31	49.71	8.29	67.38	14.84
5:00 PM	-1.0	1.011	1.82	0.30	49.18	8.20	66.65	15.00
6:00 PM	0.0	1.000	1.80	0.30	48.65	8.11	65.93	15.17
7:00 PM	1.0	0.989	1.78	0.30	48.13	8.02	65.22	15.33
8:00 PM	2.0	0.979	1.76	0.29	47.61	7.93	64.52	15.50
9:00 PM	3.0	0.968	1.74	0.29	47.10	7.85	63.83	15.67
10:00 PM	4.0	0.958	1.72	0.29	46.59	7.76	63.14	15.84
11:00 PM	5.0	0.947	1.71	0.28	46.09	7.68	62.46	16.01

SIR-Y002  
5 DPC

SIR-Y002  
4 DPC

SIR-Y002  
3 DPC

SIR-Y002  
2 DPC

SIR-Y002  
1 DPC

SIR-Y002  
Day of Calibration

SIR-Y002  
Post-Calibration

Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

## SIR-Spheres Y-90 resin microspheres (SIR-Y002 3 mL vial)

### POST-CALIBRATION

	Elapsed Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	6.0	0.937	1.69	0.28	45.59	7.60	61.79	16.18
1:00 AM	7.0	0.927	1.67	0.28	45.10	7.52	61.13	16.36
2:00 AM	8.0	0.917	1.65	0.28	44.62	7.44	60.47	16.54
3:00 AM	9.0	0.907	1.63	0.27	44.14	7.36	59.82	16.72
4:00 AM	10.0	0.898	1.62	0.27	43.66	7.28	59.18	16.90
5:00 AM	11.0	0.888	1.60	0.27	43.19	7.20	58.54	17.08
6:00 AM	12.0	0.878	1.58	0.26	42.73	7.12	57.91	17.27
7:00 AM	13.0	0.869	1.56	0.26	42.27	7.04	57.29	17.46
8:00 AM	14.0	0.860	1.55	0.26	41.81	6.97	56.67	17.65
9:00 AM	15.0	0.850	1.53	0.26	41.36	6.89	56.06	17.84
10:00 AM	16.0	0.841	1.51	0.25	40.92	6.82	55.46	18.03
11:00 AM	17.0	0.832	1.50	0.25	40.48	6.75	54.86	18.23
12:00 PM	18.0	0.823	1.48	0.25	40.04	6.67	54.27	18.43
1:00 PM	19.0	0.814	1.47	0.24	39.61	6.60	53.69	18.63
2:00 PM	20.0	0.806	1.45	0.24	39.19	6.53	53.11	18.83
3:00 PM	21.0	0.797	1.43	0.24	38.77	6.46	52.54	19.03
4:00 PM	22.0	0.788	1.42	0.24	38.35	6.39	51.97	19.24
5:00 PM	23.0	0.780	1.40	0.23	37.94	6.32	51.42	19.45
6:00 PM	24.0	0.771	1.39	0.23	37.53	6.25	50.86	19.66

SIR-Y002  
5 DPC

SIR-Y002  
4 DPC

SIR-Y002  
3 DPC

SIR-Y002  
2 DPC

SIR-Y002  
1 DPC

SIR-Y002  
Day of Calibration

SIR-Y002  
Post-Calibration

Indication

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).

To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000



**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](http://www.sirtex.com/sir-spheres/risk_adverse-events/ca)) for a complete listing of indications, contraindications, side effects, warnings, and precautions.** *January 2025*

SIR-Y002  
5 DPC

SIR-Y002  
4 DPC

SIR-Y002  
3 DPC

SIR-Y002  
2 DPC

SIR-Y002  
1 DPC

SIR-Y002  
Day of Calibration

SIR-Y002  
Post-Calibration

Indication



#### Manufacturer

Sirtex Medical Pty Ltd  
Shop 6, 207 Pacific Highway  
St Leonards, NSW 2065  
Australia  
Tel: +61 2 9964 8400  
Fax: +61 2 9964 8410

#### Americas

Sirtex Medical Inc.  
300 Unicorn Park Drive  
Woburn, MA 01801  
USA  
Tel: +1 888 474 7839

[www.sirtex.com](http://www.sirtex.com)  [@SirtexMedical](https://twitter.com/SirtexMedical)  [company/sirtex-medical-limited](https://www.linkedin.com/company/sirtex-medical-limited)

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