

SUPPLEMENTAL TABLE 1

Quality Control Data from Three Representative Batches of ^{68}Ga -Citrate

Product specifications	Limits for product release	Results
Appearance	Clear and colorless solution, free of particles	Pass
pH	3.0–7.0	4.7 ± 0.3
Radionuclidic identity	68 min \pm 3 min	68.1 ± 0.2 min
Radiochemical purity	$\geq 95\%$ by iTLC*	$97.3\% \pm 0.6$
Radioactivity concentration	≥ 15 MBq/mL	44.3 ± 1.2 MBq/mL
Radionuclidic purity	$\geq 99.9\%$ ^{68}Ga	Pass
	$\leq 0.001\%$ ^{68}Ge	Pass
Content of ethanol	≤ 5 mg/mL	$1.3\% \pm 1.1$
Residual solvents (acetone)	≤ 5 mg/mL	$0.0\% \pm 0.0$
Sterile filter integrity	≥ 3.45 bar	4.1 ± 0.1 bar
Sterility	Sterile (no viable organisms detected)	Pass
Bacterial endotoxins	≤ 17.5 EU \dagger /mL	1.2 ± 0.0 EU/mL

*iTLC = instant thin-layer chromatography. \dagger EU = endotoxin units.

SUPPLEMENTAL TABLE 2

Decay-Corrected Radioactivity Concentration (SUV) of ^{68}Ga -Citrate as a Function of Time in Organs of Healthy Men

Brain

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.43	0.37	0.38	0.43	0.40	0.49	0.42	0.04	0.37	0.49	11 %
0:05:00	5.0	0.34	0.37	0.32	0.43	0.43	0.46	0.39	0.06	0.32	0.46	14 %
0:10:00	10.0	0.30	0.32	0.29	0.36	0.35	0.42	0.34	0.05	0.29	0.42	15 %
0:20:00	20.0	0.26	0.27	0.25	0.29	0.30	0.37	0.29	0.05	0.25	0.37	16 %
0:30:00	30.0	0.23	0.24	0.23	0.27	0.27	0.34	0.26	0.04	0.23	0.34	17 %
1:30:00	90.0	0.19	0.17	0.21	0.25	0.22	0.26	0.22	0.04	0.17	0.26	17 %
3:00:00	180.0	0.16	0.14	0.15	0.20	0.18	0.23	0.18	0.03	0.14	0.23	19 %
Organ volume (cm ³)		1505	1355	1435	1545	1662	1402	1484	111	1355	1662	7 %

Gall bladder contents

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.37	0.63	1.59	0.25	0.40	0.55	0.80	0.55	0.25	1.59	69 %
0:05:00	5.0	1.61	0.55	2.05	0.38	0.74	0.51	0.97	0.69	0.38	2.05	71 %
0:10:00	10.0	1.41	0.46	1.71	0.52	0.89	0.66	0.94	0.51	0.46	1.71	54 %
0:20:00	20.0	1.23	0.41	2.01	0.75	0.88	0.67	0.99	0.57	0.41	2.01	57 %
0:30:00	30.0	0.90	0.51	1.79	0.63	1.06	0.66	0.93	0.47	0.51	1.79	51 %
1:30:00	90.0	1.98	0.77	1.30	1.11	0.97	0.73	1.14	0.46	0.73	1.98	40 %
3:00:00	180.0	2.16	1.06	1.16	1.59	1.11	0.69	1.29	0.51	0.69	2.16	40 %
Organ volume (cm ³)		15	22	9	9	15	28	16	7	9	28	46 %

Lower Large Intestine (left colon & rectum)

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.62	0.51	0.57	1.03	0.74	0.91	0.73	0.21	0.51	1.03	28 %
0:05:00	5.0	0.68	0.56	0.52	1.12	1.13	0.93	0.82	0.27	0.52	1.13	33 %
0:10:00	10.0	0.75	0.72	0.67	1.15	1.30	0.98	0.93	0.26	0.67	1.30	28 %

0:20:00	20.0	0.85	0.75	0.86	1.36	1.37	1.16	1.06	0.27	0.75	1.37	26 %
0:30:00	30.0	0.93	0.81	0.82	1.52	1.45	1.41	1.16	0.34	0.81	1.52	29 %
1:30:00	90.0	1.13	0.90	1.25	1.71	1.65	1.50	1.36	0.32	0.90	1.71	23 %
3:00:00	180.0	1.20	1.08	1.20	1.97	1.74	1.42	1.43	0.35	1.08	1.97	25 %

Small intestine

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.56	1.03	0.62	1.46	1.03	1.73	1.24	0.41	0.62	1.73	33 %
0:05:00	5.0	1.55	1.16	0.64	1.52	1.96	1.61	1.41	0.45	0.64	1.96	32 %
0:10:00	10.0	1.57	1.34	0.81	1.42	2.15	1.71	1.50	0.44	0.81	2.15	30 %
0:20:00	20.0	1.58	1.37	0.90	1.39	2.27	1.60	1.52	0.45	0.90	2.27	29 %
0:30:00	30.0	1.54	1.05	0.97	1.32	2.21	1.49	1.43	0.45	0.97	2.21	31 %
1:30:00	90.0	1.66	0.92	0.96	1.17	2.04	1.55	1.38	0.44	0.92	2.04	32 %
3:00:00	180.0	1.39	1.57	0.89	1.28	2.05	1.37	1.42	0.38	0.89	2.05	27 %

Stomach contents

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.23	1.09	0.25	0.26	1.11	1.28	0.87	0.48	0.25	1.28	56 %
0:05:00	5.0	1.21	1.18	0.24	0.27	1.70	1.31	0.98	0.59	0.24	1.70	60 %
0:10:00	10.0	1.14	1.07	0.25	0.28	1.43	1.23	0.90	0.51	0.25	1.43	56 %
0:20:00	20.0	1.08	0.98	0.24	0.23	1.38	1.14	0.84	0.49	0.23	1.38	58 %
0:30:00	30.0	1.11	0.92	0.31	0.23	1.27	1.25	0.85	0.47	0.23	1.27	55 %
1:30:00	90.0	1.29	1.17	0.43	0.39	1.47	1.48	1.04	0.50	0.39	1.48	48 %
3:00:00	180.0	1.19	0.87	0.83	0.53	1.62	1.40	1.07	0.40	0.53	1.62	37 %

Upper large intestine (right colon)

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.56	0.46	0.49	0.59	0.52	0.55	0.53	0.05	0.46	0.59	9 %
0:05:00	5.0	0.64	0.57	0.52	0.75	0.82	0.66	0.66	0.11	0.52	0.82	17 %
0:10:00	10.0	0.78	0.70	0.59	0.83	0.80	0.74	0.74	0.09	0.59	0.83	12 %
0:20:00	20.0	0.82	0.73	0.57	0.89	0.82	0.71	0.76	0.11	0.57	0.89	15 %
0:30:00	30.0	0.91	0.78	0.66	0.93	0.95	0.72	0.82	0.12	0.66	0.95	15 %

1:30:00	90.0	1.15	1.02	0.59	1.30	1.10	0.99	1.03	0.24	0.59	1.30	23 %
3:00:00	180.0	1.18	0.96	0.58	1.16	1.20	1.22	1.05	0.25	0.58	1.22	24 %

Heart contents

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	9.04	9.47	9.35	10.65	7.04	10.84	9.40	1.37	7.04	10.84	15 %
0:05:00	5.0	7.37	7.70	7.69	8.11	7.53	9.23	7.94	0.68	7.37	9.23	9 %
0:10:00	10.0	6.37	6.52	6.68	6.73	6.27	7.77	6.72	0.54	6.27	7.77	8 %
0:20:00	20.0	5.81	5.66	5.69	5.61	5.69	7.08	5.93	0.57	5.61	7.08	10 %
0:30:00	30.0	5.01	5.07	4.88	5.07	4.82	6.12	5.16	0.48	4.82	6.12	9 %
1:30:00	90.0	3.85	3.45	3.68	3.80	3.11	4.16	3.67	0.36	3.11	4.16	10 %
3:00:00	180.0	3.04	2.73	2.82	3.20	2.53	2.85	2.86	0.24	2.53	3.20	8 %

Heart wall

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	7.71	7.63	7.29	10.63	5.85	7.99	7.85	1.56	5.85	10.63	20 %
0:05:00	5.0	6.84	6.46	6.55	8.56	6.84	6.93	7.03	0.77	6.46	8.56	11 %
0:10:00	10.0	5.90	5.79	5.77	7.21	5.87	6.21	6.12	0.55	5.77	7.21	9 %
0:20:00	20.0	5.27	5.08	5.05	6.35	5.26	5.60	5.44	0.49	5.05	6.35	9 %
0:30:00	30.0	4.63	4.58	4.56	5.58	4.68	5.02	4.84	0.40	4.56	5.58	8 %
1:30:00	90.0	3.51	3.27	3.27	4.04	3.13	3.55	3.46	0.33	3.13	4.04	9 %
3:00:00	180.0	2.89	2.49	2.51	3.29	2.65	2.78	2.77	0.30	2.49	3.29	11 %

Kidneys

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	3.79	4.10	3.38	4.50	3.00	4.58	3.89	0.63	3.00	4.58	16 %
0:05:00	5.0	3.51	4.07	3.18	4.68	4.21	4.51	4.03	0.58	3.18	4.68	14 %
0:10:00	10.0	3.16	3.63	3.02	4.17	3.94	4.44	3.73	0.56	3.02	4.44	15 %
0:20:00	20.0	2.92	3.37	2.84	3.64	3.56	4.24	3.43	0.51	2.84	4.24	15 %
0:30:00	30.0	2.80	3.01	2.62	3.25	3.35	3.90	3.15	0.46	2.62	3.90	14 %
1:30:00	90.0	2.48	2.54	2.44	2.83	2.69	3.20	2.70	0.29	2.44	3.20	11 %
3:00:00	180.0	2.20	2.38	2.18	2.51	2.33	2.64	2.38	0.18	2.18	2.64	8 %

Organ volume (cm ³)	326	289	320	297	375	318	321	30	289	375	9 %
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Liver

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	3.59	3.84	3.46	4.89	0.47	4.41	3.45	1.55	0.47	4.89	45 %
0:05:00	5.0	3.11	3.29	3.10	4.38	4.09	3.79	3.63	0.54	3.10	4.38	15 %
0:10:00	10.0	3.00	3.02	2.88	3.92	3.71	3.45	3.33	0.43	2.88	3.92	13 %
0:20:00	20.0	2.84	2.80	2.65	3.40	3.33	3.12	3.02	0.31	2.65	3.40	10 %
0:30:00	30.0	2.71	2.58	2.42	3.06	3.04	2.84	2.78	0.25	2.42	3.06	9 %
1:30:00	90.0	2.42	2.12	2.14	2.95	2.42	2.30	2.39	0.30	2.12	2.95	13 %
3:00:00	180.0	2.41	2.10	2.03	2.82	2.12	2.18	2.28	0.30	2.03	2.82	13 %
Organ volume (cm ³)		1723	1728	1613	1715	1591	1461	1639	105	1461	1728	6 %

Lungs

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.78	2.28	1.83	2.53	1.43	1.73	1.93	0.40	1.43	2.53	21 %
0:05:00	5.0	1.48	1.93	1.57	2.12	1.68	1.48	1.71	0.26	1.48	2.12	15 %
0:10:00	10.0	1.32	1.74	1.45	1.84	1.45	1.32	1.52	0.22	1.32	1.84	14 %
0:20:00	20.0	1.23	1.62	1.33	1.63	1.41	1.24	1.41	0.18	1.23	1.63	13 %
0:30:00	30.0	1.15	1.52	1.23	1.49	1.27	1.13	1.30	0.17	1.13	1.52	13 %
1:30:00	90.0	0.91	1.13	1.02	1.19	1.03	0.89	1.03	0.12	0.89	1.19	11 %
3:00:00	180.0	0.76	1.12	0.87	1.01	0.91	0.77	0.91	0.14	0.76	1.12	15 %
Organ volume (cm ³)		3218	3047	3877	2824	3727	3125	3303	411	2824	3877	12 %

Muscle

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.59	0.61	0.53	0.43	0.45	0.53	0.52	0.07	0.43	0.61	14 %
0:05:00	5.0	0.62	0.65	0.56	0.47	0.58	0.61	0.58	0.07	0.47	0.65	11 %
0:10:00	10.0	0.66	0.69	0.58	0.52	0.62	0.64	0.62	0.06	0.52	0.69	10 %
0:20:00	20.0	0.67	0.71	0.62	0.53	0.59	0.64	0.63	0.06	0.53	0.71	10 %
0:30:00	30.0	0.67	0.70	0.63	0.52	0.57	0.66	0.62	0.07	0.52	0.70	11 %

1:30:00	90.0	0.62	0.64	0.58	0.47	0.51	0.61	0.57	0.07	0.47	0.64	11 %
3:00:00	180.0	0.57	0.65	0.59	0.44	0.47	0.59	0.55	0.08	0.44	0.65	15 %

Pancreas

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	2.84	2.09	ND	ND	ND	1.75	2.23	0.56	1.75	2.84	25 %
0:05:00	5.0	3.06	1.76	ND	ND	ND	1.59	2.14	0.80	1.59	3.06	38 %
0:10:00	10.0	2.67	1.68	ND	ND	ND	1.70	2.01	0.57	1.68	2.67	28 %
0:20:00	20.0	2.72	1.49	ND	ND	ND	1.57	1.92	0.69	1.49	2.72	36 %
0:30:00	30.0	2.95	1.41	ND	ND	ND	1.71	2.02	0.82	1.41	2.95	41 %
1:30:00	90.0	2.12	0.85	ND	ND	ND	1.32	1.43	0.64	0.85	2.12	45 %
3:00:00	180.0	1.90	0.93	ND	ND	ND	1.08	1.30	0.52	0.93	1.90	40 %

Red marrow

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.82	1.97	2.21	1.61	1.41	1.85	1.81	0.28	1.41	2.21	15 %
0:05:00	5.0	1.91	2.10	2.29	1.87	1.88	2.07	2.02	0.17	1.87	2.29	8 %
0:10:00	10.0	1.86	2.09	2.21	1.67	1.86	2.04	1.95	0.19	1.67	2.21	10 %
0:20:00	20.0	1.85	1.97	2.08	1.72	1.71	1.91	1.87	0.15	1.71	2.08	8 %
0:30:00	30.0	1.86	1.86	1.92	1.72	1.60	1.85	1.80	0.12	1.60	1.92	6 %
1:30:00	90.0	1.83	1.87	1.88	2.17	1.62	1.41	1.80	0.26	1.41	2.17	14 %
3:00:00	180.0	1.70	1.93	1.74	2.33	1.61	1.68	1.83	0.27	1.61	2.33	15 %

Cortical bone

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.41	0.52	0.38	0.44	0.29	0.55	0.43	0.09	0.29	0.55	22 %
0:05:00	5.0	0.47	0.59	0.46	0.51	0.41	0.67	0.52	0.09	0.41	0.67	18 %
0:10:00	10.0	0.54	0.65	0.51	0.60	0.46	0.72	0.58	0.09	0.46	0.72	16 %
0:20:00	20.0	0.57	0.68	0.56	0.60	0.50	0.75	0.61	0.09	0.50	0.75	15 %
0:30:00	30.0	0.59	0.72	0.64	0.63	0.53	0.79	0.65	0.09	0.53	0.79	14 %
1:30:00	90.0	0.62	0.78	0.62	0.72	0.57	0.86	0.70	0.11	0.57	0.86	16 %
3:00:00	180.0	0.59	0.73	0.62	0.79	0.54	0.83	0.68	0.11	0.54	0.83	17 %

Trabecular bone

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.60	0.59	0.40	0.65	0.35	0.80	0.56	0.17	0.35	0.80	30 %
0:05:00	5.0	0.66	0.72	0.50	0.76	0.50	0.98	0.69	0.18	0.50	0.98	26 %
0:10:00	10.0	0.68	0.75	0.51	0.77	0.52	1.02	0.71	0.19	0.51	1.02	27 %
0:20:00	20.0	0.65	0.73	0.55	0.71	0.56	1.05	0.71	0.18	0.55	1.05	25 %
0:30:00	30.0	0.64	0.74	0.59	0.74	0.54	0.96	0.70	0.15	0.54	0.96	21 %
1:30:00	90.0	0.68	0.76	0.60	0.84	0.55	0.91	0.72	0.14	0.55	0.91	20 %
3:00:00	180.0	0.63	0.71	0.59	0.95	0.53	0.82	0.70	0.16	0.53	0.95	22 %

Spleen

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	3.72	3.78	4.08	4.56	3.65	4.23	4.00	0.35	3.65	4.56	9 %
0:05:00	5.0	3.30	3.26	3.66	3.80	4.20	3.55	3.63	0.35	3.26	4.20	10 %
0:10:00	10.0	2.90	2.92	3.29	3.20	3.57	3.26	3.19	0.25	2.90	3.57	8 %
0:20:00	20.0	2.61	2.68	2.95	2.87	3.25	2.87	2.87	0.23	2.61	3.25	8 %
0:30:00	30.0	2.32	2.41	2.64	2.52	2.93	2.63	2.58	0.21	2.32	2.93	8 %
1:30:00	90.0	2.01	2.00	2.43	2.31	2.24	1.99	2.16	0.19	1.99	2.43	9 %
3:00:00	180.0	1.73	1.95	1.96	1.97	1.94	1.79	1.89	0.10	1.73	1.97	5 %
Organ volume (cm ³)		126	189	141	224	200	126	168	42	126	224	25 %

Testes

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	1.05	0.91	0.46	0.63	0.63	0.63	0.72	0.22	0.46	1.05	30 %
0:05:00	5.0	1.24	1.05	0.70	0.98	0.97	0.75	0.95	0.20	0.70	1.24	21 %
0:10:00	10.0	1.28	1.22	0.83	1.26	1.14	1.13	1.15	0.16	0.83	1.28	14 %
0:20:00	20.0	1.44	1.52	1.05	1.57	1.37	1.37	1.39	0.18	1.05	1.57	13 %
0:30:00	30.0	1.53	1.70	1.29	2.05	1.56	1.70	1.64	0.25	1.29	2.05	15 %
1:30:00	90.0	2.00	2.07	1.60	2.32	1.99	2.10	2.01	0.23	1.60	2.32	12 %
3:00:00	180.0	1.80	2.46	1.75	2.22	1.79	2.18	2.03	0.29	1.75	2.46	14 %

Thyroid

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	2.33	3.29	2.31	3.84	1.95	2.77	2.75	0.71	1.95	3.84	26 %
0:05:00	5.0	2.09	2.91	2.25	3.71	2.13	2.84	2.65	0.63	2.09	3.71	24 %
0:10:00	10.0	2.23	2.89	2.10	3.37	2.10	2.71	2.57	0.51	2.10	3.37	20 %
0:20:00	20.0	2.24	2.77	2.03	2.82	2.05	2.55	2.41	0.35	2.03	2.82	15 %
0:30:00	30.0	1.96	2.52	1.95	2.61	2.04	2.54	2.27	0.32	1.95	2.61	14 %
1:30:00	90.0	1.55	2.25	1.48	2.31	1.94	2.15	1.95	0.36	1.48	2.31	18 %
3:00:00	180.0	1.49	1.80	1.30	1.99	1.90	1.89	1.73	0.27	1.30	1.99	16 %
Organ volume (cm ³)		12	11	20	11	11	13	13	4	11	20	27 %

Urinary bladder contents

Time (h)	Time (min)	Subject #1	Subject #2	Subject #3	Subject #4	Subject #5	Subject #6	Mean	SD	Min	Max	COV
0:01:00	1.0	0.18	0.29	ND	0.39	0.06	0.17	0.22	0.13	0.06	0.39	58 %
0:05:00	5.0	0.56	2.47	ND	0.63	0.19	1.36	1.04	0.90	0.19	2.47	87 %
0:10:00	10.0	1.20	5.22	ND	3.42	1.06	1.92	2.57	1.76	1.06	5.22	68 %
0:20:00	20.0	1.47	5.40	ND	5.22	2.03	2.03	3.23	1.92	1.47	5.40	59 %
0:30:00	30.0	1.58	5.00	ND	6.59	2.81	2.13	3.62	2.10	1.58	6.59	58 %
1:30:00	90.0	3.51	7.00	3.94	7.51	5.80	5.94	5.62	1.60	3.51	7.51	29 %
3:00:00	180.0	2.47	6.50	2.75	5.37	4.32	6.99	4.73	1.89	2.47	6.99	40 %

COV = coefficient of variation = SD/mean×100; ND = not determined.

SUPPLEMENTAL TABLE 3

Plasma Concentration of Intravenously Administered ^{68}Ga -Citrate in Healthy Men

	C_0 (SUV g/mL)	$1/C_0$ (L/kg)*	C_{4h} (SUV g/mL)	$1/C_{4h}$ (L/kg)†
Subject #1	17.1	0.0584	6.4	0.1559
Subject #2	19.3	0.0517	ND	ND
Subject #3	15.3	0.0654	5.0	0.2010
Subject #4	18.1	0.0551	6.3	0.1600
Subject #5	15.0	0.0668	5.3	0.1882
Subject #6	18.7	0.0535	6.0	0.1660
Mean	17.3	0.0585	5.8	0.1742
SD	1.8	0.0063	0.6217	0.0195
COV (%)	11	11	11	11

SUV = standardized uptake value; COV = Coefficient of variation = $\text{SD}/\text{mean} \times 100$.

* $1/C_0$ is related to the total plasma volume.

† $1/C_{4h}$ may be related to the extracellular volume of the body.

SUPPLEMENTAL TABLE 4

Organ Doses and Effective Doses (mSv/MBq) After Injection of ⁶⁸Ga-Citrate According to

OLINDA 1.0

	Mean ± SD	COV (%)*	Range
Adrenals	0.011 ± 0.000	2	0.011–0.011
Brain	0.004 ± 0.001	13	0.003–0.005
Breasts	0.009 ± 0.000	3	0.008–0.009
Gall bladder wall	0.013 ± 0.001	6	0.012–0.014
Lower large intestine wall	0.013 ± 0.001	7	0.012–0.014
Small intestine wall	0.017 ± 0.002	10	0.014–0.019
Stomach wall	0.018 ± 0.003	17	0.014–0.021
Upper large intestine wall	0.015 ± 0.001	7	0.013–0.016
Heart wall	0.070 ± 0.008	11	0.061–0.080
Kidneys	0.035 ± 0.004	12	0.030–0.040
Liver	0.028 ± 0.005	17	0.024–0.036
Lungs	0.040 ± 0.003	9	0.034–0.044
Muscle	0.010 ± 0.001	7	0.009–0.011
Ovaries	0.010 ± 0.000	2	0.010–0.011
Pancreas	0.021 ± 0.012	60	0.012–0.043
Red marrow	0.017 ± 0.001	6	0.015–0.018
Osteogenic cells	0.021 ± 0.001	5	0.020–0.023
Skin	0.007 ± 0.000	3	0.007–0.008
Spleen	0.026 ± 0.006	23	0.020–0.035
Testes	0.021 ± 0.003	13	0.018–0.025
Thymus	0.010 ± 0.000	2	0.010–0.011
Thyroid	0.016 ± 0.002	15	0.013–0.020
Urinary bladder wall	0.033 ± 0.009	27	0.024–0.049
Uterus	0.011 ± 0.000	3	0.011–0.011
Total body	0.013 ± 0.000	1	0.013–0.013
Effective dose (ICRP 60)†	0.020 ± 0.001	3.7	0.019–0.022
Effective dose (ICRP 103)‡	0.019 ± 0.001	3.0	0.019–0.020

* Coefficient of variation = SD/mean×100.

† ICRP Publication 60 (27)

‡ ICRP Publication 103 (20)