

Table S1. Dosage for each individual

	Animal No.	Weight (g)	Dosage (μCi)	Actual dosage (μCi)	Dosing rate (%)
0.083 hr	1	31.44	20.96	22.10	105.44
	2	30.76	20.51	22.47	109.57
	3	34.61	23.07	23.20	100.55
	4	36.26	24.17	24.50	101.35
1 hr	1	32.75	21.83	22.45	102.82
	2	32.47	21.65	21.99	101.59
	3	36.53	24.35	24.32	99.86
	4	36.08	24.05	24.38	101.36
2 hr	1	33.96	22.64	22.62	99.91
	2	34.78	23.19	23.27	100.36
	3	32.04	21.36	21.99	102.95
	4	34.76	23.17	23.62	101.93
6 hr	1	36.50	24.33	24.39	100.23
	2	33.50	22.33	20.97	93.90
	3	37.22	24.81	24.04	96.88
	4	34.51	23.01	24.10	104.75
24 hr	1	33.53	22.35	23.16	103.61
	2	32.94	21.96	23.57	107.33
	3	33.76	22.51	22.55	100.19
	4	34.83	23.22	24.02	103.45
Excretion	1	33.49	22.33	22.62	101.31
	2	34.79	23.19	23.17	99.90
	3	35.82	23.88	23.88	100.00
	4	34.96	23.31	23.70	101.69

Table S2. After administration of the Technekitty injection (Tc-99m), *in vivo* tissue distribution by individual (%ID/organ)

0.083 hr / Animal No.	1	2	3	4	Mean (%ID/organ)	S.D.
Blood	14.829	15.023	18.552	16.666	16.268	1.732
Heart	0.451	0.359	0.612	0.344	0.441	0.123
Liver	9.420	8.505	10.787	9.452	9.541	0.939
Lung	1.251	1.189	1.305	1.237	1.245	0.047
Spleen	0.468	0.309	0.417	0.480	0.419	0.078
Kidney	2.088	2.557	2.319	2.107	2.268	0.220
Stomach	2.820	2.902	2.151	3.519	2.848	0.560
Small Intestine	3.677	3.384	3.568	3.272	3.475	0.182
Large Intestine	2.256	2.341	1.707	1.830	2.033	0.312
Thyroid	0.388	0.753	0.600	0.559	0.575	0.150
Salivary gland	2.740	3.918	2.630	3.164	3.113	0.584
Muscle	0.137	0.203	0.239	0.244	0.206	0.049
Femur	0.273	0.259	0.264	0.275	0.268	0.007
Brain	0.059	0.111	0.152	0.132	0.114	0.040
Testis	0.261	0.305	0.295	0.262	0.281	0.023

1 h / Animal No.	1	2	3	4	Mean (%ID/organ)	S.D.
Blood	5.814	7.199	5.009	5.049	5.768	1.023
Heart	0.127	0.186	0.113	0.152	0.144	0.032
Liver	4.193	5.476	4.425	3.810	4.476	0.713
Lung	0.469	0.524	0.400	0.362	0.439	0.072
Spleen	0.124	0.151	0.126	0.121	0.130	0.014
Kidney	0.701	1.218	0.825	0.687	0.858	0.248
Stomach	5.766	7.027	8.590	3.605	6.247	2.106
Small Intestine	2.850	4.739	2.731	2.412	3.183	1.054
Large Intestine	3.264	4.104	3.393	3.629	3.597	0.370
Thyroid	0.706	0.835	0.678	0.700	0.730	0.071
Salivary gland	4.765	4.853	3.883	5.986	4.872	0.862
Muscle	0.066	0.110	0.065	0.074	0.079	0.021
Femur	0.094	0.100	0.129	0.079	0.101	0.021

Brain	0.059	0.067	0.041	0.043	0.053	0.013
Testis	0.170	0.220	0.185	0.172	0.187	0.023

2 h / Animal No.	1	2	3	4	Mean (%ID/organ)	S.D.
Blood	4.478	5.849	4.344	5.341	5.003	0.716
Heart	0.137	0.172	0.159	0.189	0.164	0.022
Liver	4.040	5.536	3.212	3.946	4.183	0.974
Lung	0.419	0.388	0.371	0.444	0.406	0.033
Spleen	0.104	0.123	0.110	0.120	0.114	0.009
Kidney	0.782	0.865	0.959	0.919	0.881	0.076
Stomach	7.774	4.291	12.586	11.012	8.916	3.677
Small Intestine	4.535	3.849	3.953	4.651	4.247	0.405
Large Intestine	4.531	4.164	6.362	4.987	5.011	0.962
Thyroid	0.803	0.759	0.573	0.710	0.711	0.100
Salivary gland	3.052	9.437	9.544	3.737	6.442	3.531
Muscle	0.062	0.084	0.036	0.076	0.065	0.021
Femur	0.118	0.073	0.093	0.116	0.100	0.022
Brain	0.043	0.051	0.047	0.044	0.046	0.003
Testis	0.138	0.152	0.144	0.136	0.143	0.008

6 h / Animal No.	1	2	3	4	Mean (%ID/organ)	S.D.
Blood	2.870	3.388	4.201	2.993	3.363	0.601
Heart	0.056	0.113	0.109	0.095	0.093	0.026
Liver	3.812	2.795	4.920	3.365	3.723	0.900
Lung	0.211	0.263	0.344	0.236	0.264	0.058
Spleen	0.063	0.066	0.075	0.078	0.070	0.007
Kidney	0.679	0.713	0.941	0.665	0.750	0.129
Stomach	3.222	6.216	6.210	7.014	5.666	1.672
Small Intestine	3.141	2.181	3.903	4.379	3.401	0.960
Large Intestine	11.059	7.203	11.635	10.801	10.174	2.012
Thyroid	0.357	0.381	0.333	0.291	0.341	0.038
Salivary gland	3.766	4.870	1.577	3.363	3.394	1.368
Muscle	0.046	0.041	0.073	0.041	0.050	0.015

Femur	0.036	0.061	0.063	0.051	0.053	0.013
Brain	0.021	0.034	0.040	0.035	0.033	0.008
Testis	0.082	0.109	0.136	0.085	0.103	0.025

24 h / Animal No.	1	2	3	4	Mean (%ID/organ)	S.D.
Blood	0.158	0.155	0.262	0.511	0.271	0.167
Heart	0.010	0.008	0.012	0.021	0.013	0.006
Liver	1.402	1.514	1.977	1.985	1.719	0.305
Lung	0.024	0.023	0.036	0.051	0.033	0.013
Spleen	0.006	0.007	0.009	0.015	0.009	0.004
Kidney	0.239	0.201	0.297	0.344	0.270	0.063
Stomach	0.655	0.694	1.358	2.099	1.202	0.680
Small Intestine	0.426	0.535	0.799	0.963	0.681	0.245
Large Intestine	1.520	1.408	1.668	3.143	1.935	0.813
Thyroid	0.040	0.037	0.053	0.089	0.055	0.024
Salivary gland	0.206	0.324	0.452	0.911	0.474	0.309
Muscle	0.004	0.003	0.005	0.009	0.005	0.003
Femur	0.004	0.005	0.005	0.012	0.006	0.004
Brain	0.004	0.004	0.004	0.007	0.005	0.001
Testis	0.015	0.012	0.017	0.026	0.018	0.006

Table S3. After administration of the Technekitty injection (Tc-99m), *in vivo* tissue distribution by individual (%ID/g)

0.083 h / Animal No.	1	2	3	4	Mean (%ID/g)	S.D.
Blood	8.063	8.348	9.163	7.857	8.358	0.573
Heart	2.783	2.582	3.475	2.281	2.780	0.507
Liver	4.705	4.746	5.280	4.882	4.903	0.262
Lung	5.045	5.664	6.012	5.068	5.447	0.473
Spleen	2.890	3.219	3.041	2.912	3.015	0.152
Kidney	3.947	4.262	4.090	3.810	4.027	0.194
Stomach	9.038	14.021	6.917	8.754	9.683	3.041
Small Intestine	1.949	1.918	1.845	1.594	1.826	0.161
Large Intestine	2.165	2.046	1.559	1.707	1.869	0.284
Thyroid	8.255	16.022	9.381	12.703	11.590	3.506
Salivary gland	12.510	19.492	8.977	11.141	13.030	4.547
Muscle	1.045	1.076	1.057	1.018	1.049	0.024
Femur	2.252	2.724	2.259	2.408	2.411	0.221
Brain	0.212	0.225	0.301	0.287	0.256	0.045
Testis	0.989	1.519	1.287	1.104	1.224	0.231

1 h / Animal No.	1	2	3	4	Mean (%ID/g)	S.D.
Blood	3.034	3.790	2.344	2.392	2.890	0.677
Heart	0.678	1.410	0.796	0.767	0.912	0.335
Liver	2.537	2.908	2.114	2.009	2.392	0.413
Lung	2.141	2.671	1.665	1.409	1.971	0.557
Spleen	1.050	1.700	0.954	0.784	1.122	0.401
Kidney	1.620	2.159	1.427	1.308	1.629	0.377
Stomach	25.289	25.739	23.092	11.197	21.329	6.853
Small Intestine	15.080	2.757	1.204	1.432	5.118	6.677
Large Intestine	4.055	3.406	3.231	3.099	3.448	0.424
Thyroid	35.285	23.200	16.956	9.866	21.327	10.782
Salivary gland	23.133	21.379	15.049	21.151	20.178	3.532
Muscle	0.393	0.445	0.327	0.269	0.359	0.077

Femur	1.173	1.091	0.803	0.590	0.914	0.268
Brain	0.128	0.139	0.083	0.079	0.107	0.031
Testis	0.949	1.093	0.707	0.653	0.850	0.206

2 h / Animal No.	1	2	3	4	Mean (%ID/g)	S.D.
Blood	2.254	2.875	2.318	2.626	2.518	0.288
Heart	0.857	1.034	0.962	1.055	0.977	0.090
Liver	2.177	2.669	1.876	2.166	2.222	0.329
Lung	1.487	1.773	1.700	1.931	1.723	0.184
Spleen	0.752	0.950	0.877	0.795	0.844	0.088
Kidney	1.467	1.654	1.865	1.580	1.642	0.168
Stomach	25.078	16.439	37.125	26.859	26.376	8.489
Small Intestine	2.383	2.330	2.123	2.236	2.268	0.114
Large Intestine	5.824	4.684	6.466	5.244	5.554	0.765
Thyroid	25.910	28.095	16.843	19.715	22.641	5.247
Salivary gland	12.407	34.191	41.314	14.154	25.517	14.442
Muscle	0.289	0.346	0.336	0.308	0.320	0.026
Femur	0.816	0.806	0.697	0.783	0.776	0.054
Brain	0.088	0.102	0.095	0.089	0.094	0.006
Testis	0.671	0.690	0.600	0.597	0.639	0.048

6 h / Animal No.	1	2	3	4	Mean (%ID/g)	S.D.
Blood	1.344	1.729	1.929	1.482	1.621	0.260
Heart	0.419	0.650	0.701	0.607	0.594	0.123
Liver	2.157	1.612	2.484	1.813	2.016	0.384
Lung	0.891	1.217	1.452	0.983	1.136	0.252
Spleen	0.565	0.662	0.780	0.530	0.634	0.112
Kidney	1.350	1.432	1.825	1.615	1.555	0.211
Stomach	11.675	22.939	17.593	21.716	18.481	5.081
Small Intestine	1.946	1.758	2.405	2.142	2.063	0.277
Large Intestine	9.778	8.279	9.198	8.689	8.986	0.648
Thyroid	12.742	17.322	12.798	9.714	13.144	3.136

Salivary gland	14.486	21.082	5.241	14.012	13.705	6.500
Muscle	0.192	0.223	0.339	0.440	0.299	0.113
Femur	0.495	0.611	0.764	0.108	0.494	0.280
Brain	0.043	0.073	0.087	0.175	0.095	0.057
Testis	0.412	0.520	0.634	0.106	0.418	0.227

24 h / Animal No.	1	2	3	4	Mean (%ID/g)	S.D.
Blood	0.081	0.080	0.132	0.251	0.136	0.080
Heart	0.055	0.053	0.077	0.132	0.079	0.036
Liver	0.789	0.958	1.093	1.194	1.008	0.176
Lung	0.119	0.095	0.155	0.227	0.149	0.058
Spleen	0.060	0.048	0.084	0.127	0.080	0.035
Kidney	0.372	0.416	0.532	0.672	0.498	0.134
Stomach	2.642	1.979	5.347	6.157	4.031	2.032
Small Intestine	0.248	0.273	0.501	0.612	0.409	0.177
Large Intestine	1.654	1.607	1.883	4.114	2.314	1.206
Thyroid	1.814	1.313	1.963	2.278	1.842	0.402
Salivary gland	0.808	1.482	1.774	3.660	1.931	1.222
Muscle	0.020	0.016	0.022	0.045	0.026	0.013
Femur	0.041	0.051	0.061	0.102	0.064	0.027
Brain	0.008	0.009	0.009	0.013	0.010	0.002
Testis	0.078	0.056	0.071	0.116	0.080	0.026

Table S4. Excretion amount of each individual in urine and feces over time (%ID)

6 h / Animal No.	1	2	3	4	Mean (%ID)	S.D.
Urine	0.002	15.344	10.861	0.046	6.563	7.769
Feces	1.390	3.289	7.893	5.854	4.607	2.854
Swab	0.041	0.866	8.581	17.620	6.777	8.188

24 h / Animal No.	1	2	3	4	Mean (%ID)	S.D.
Urine	28.793	19.479	14.756	15.757	19.696	6.396
Feces	39.031	30.811	26.073	21.620	29.384	7.446
Swab	1.050	2.177	1.501	4.283	2.253	1.431

48 h / Animal No.	1	2	3	4	Mean (%ID)	S.D.
Urine	2.692	2.615	1.561	0.454	1.831	1.053
Feces	8.605	4.143	5.217	10.469	7.108	2.939
Swab	0.398	0.839	0.344	0.746	0.582	0.248