

PHANTOM MATERIAL PROPERTIES*

(please cite data as ISMRM Singapore Proceedings, program number 3290)

1. T₁ Contrast Spheres

1.5T

Sample Name	Nominal Concentration, NiCl ₂ (± 5%, mM)	T ₁ (ms)	T ₁ Standard Deviation, SD _{3R} (ms)	T ₂ (ms)	T ₂ Standard Deviation, SD _{3R} (ms)
T1-1	0.299	2 033	4.6	1 669	0.5
T1-2	0.623	1 489	1.4	1 244	0.6
T1-3	1.072	1 012	0.2	859.3	0.17
T1-4	1.720	730.8	1.10	628.5	0.13
T1-5	2.617	514.1	0.06	446.3	0.11
T1-6	3.912	367.9	0.66	321.2	0.30
T1-7	5.731	260.1	0.04	227.7	0.07
T1-8	8.297	184.6	0.02	161.9	0.06
T1-9	11.936	132.7	0.02	117.1	0.03
T1-10	17.070	92.7	0.09	81.9	0.02
T1-11	24.326	65.4	0.10	57.7	0.02
T1-12	34.590	46.32	0.010	41.0	0.01
T1-13	49.122	32.45	0.012	28.7	0.03
T1-14	69.680	22.859	0.043 7	20.2	0.01

3.0T

Sample Name	Nominal Concentration, NiCl ₂ (± 5%, mM)	T ₁ (ms)	T ₁ Standard Deviation, SD _{3R} (ms)	T ₂ (ms)	T ₂ Standard Deviation, SD _{3R} (ms)
T1-1	0.299	1 989	1.0	1 465	1.0
T1-2	0.623	1 454	2.5	1 076	1.8
T1-3	1.072	984.1	0.33	717.9	1.12
T1-4	1.720	706	1.5	510.1	1.36
T1-5	2.617	496.7	0.41	359.6	0.22
T1-6	3.912	351.5	0.91	255.5	0.07
T1-7	5.731	247.13	0.086	180.8	0.04
T1-8	8.297	175.3	0.11	127.3	0.14
T1-9	11.936	125.9	0.33	90.3	0.14
T1-10	17.070	89.0	0.17	64.3	0.05
T1-11	24.326	62.7	0.13	45.7	0.12
T1-12	34.590	44.53	0.090	31.86	0.02
T1-13	49.122	30.84	0.016	22.38	0.02
T1-14	69.680	21.719	0.005 4	15.83	0.03