

**Additional file 1 – Amount of Gd-PAMAM dendrimer infused per Gd dose**

Gd-dendrimer generation	0.03 mmol Gd/kg bw (mg Gd-dendrimer)	0.06 mmol Gd/kg bw (mg Gd-dendrimer)	0.09 mmol Gd/kg bw (mg Gd-dendrimer)
G1	32	—	94
G2	32	—	96
G3	37	—	110
Lowly conjugated G4	38	—	115
G4	39	—	118
G5	40	—	119
Rhodamine B G5	—	96	—
G6	40	—	119
G7	39	—	116
G8	46	—	139
Rhodamine B G8	—	101	—