

Supporting Information for

Attaching Double Chain Cationic Gd(III)-Containing Surfactants on Nanosized Colloids for Highly Efficient MRI Contrast Agents

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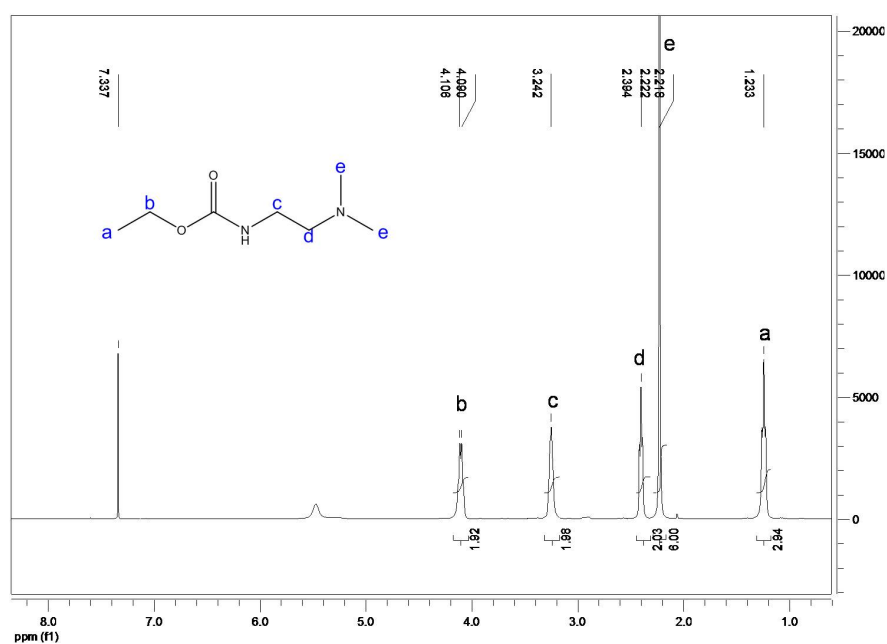


Figure S1 ¹H NMR spectrum of compound 1

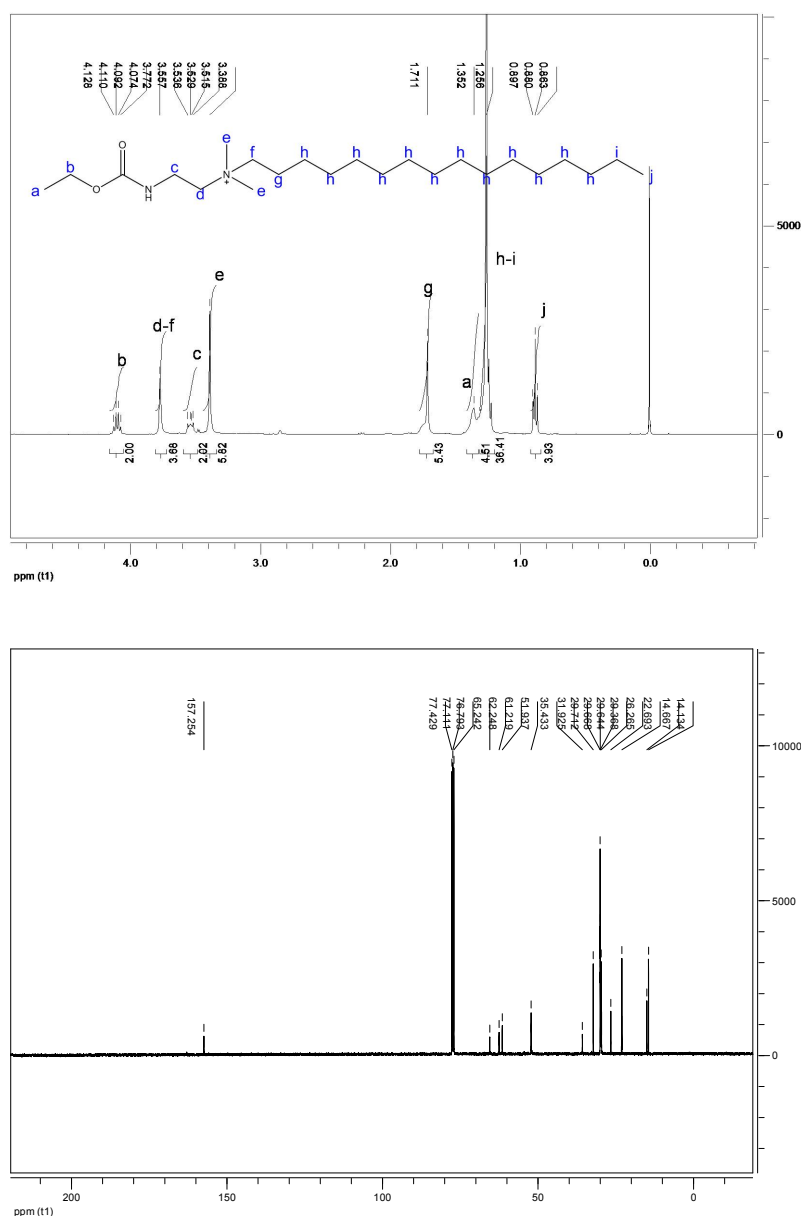


Figure S2 ^1H NMR and ^{13}C NMR spectra of compound 2

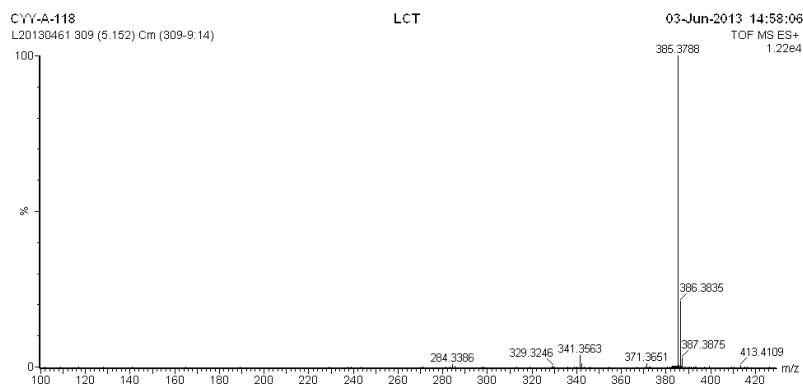
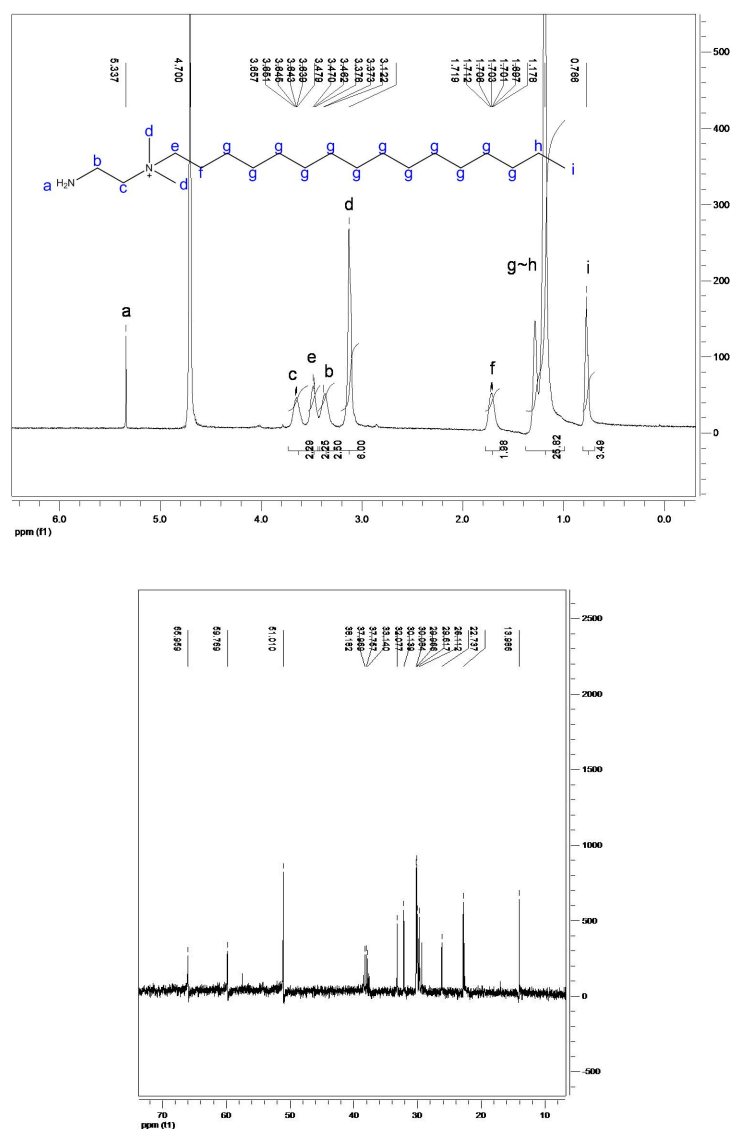


Figure S3 ESI-MS spectrum of compound 2



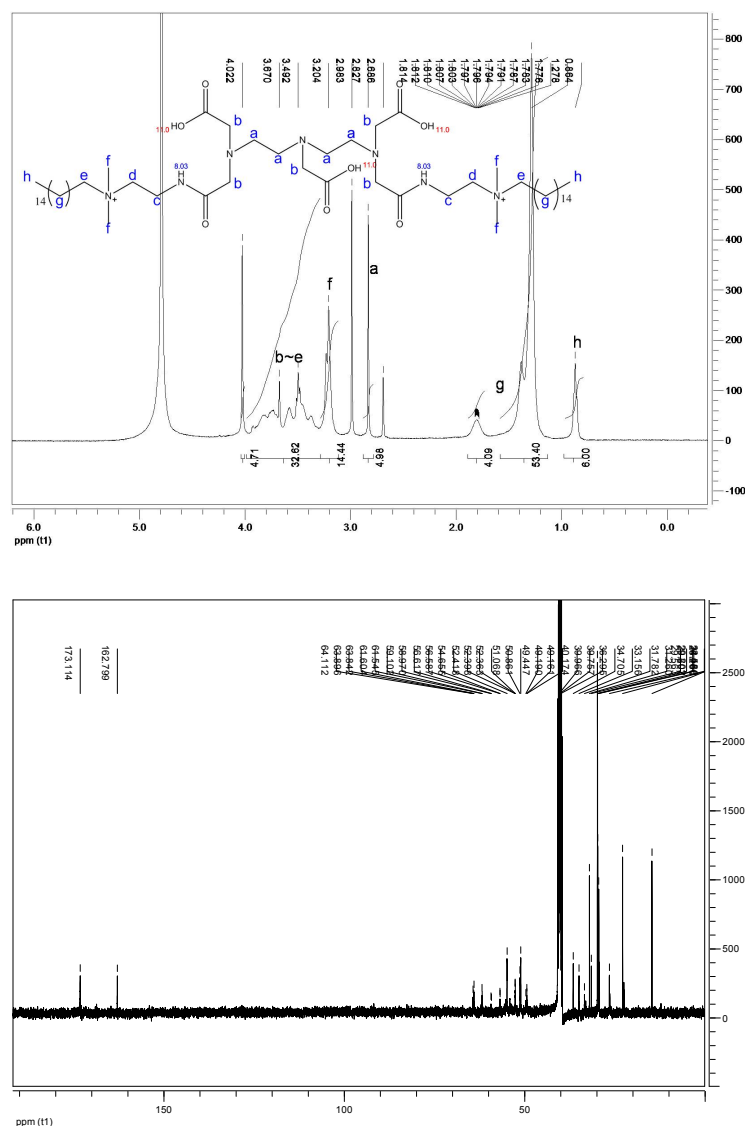


Figure S6 ^1H NMR and ^{13}C NMR of compound 5

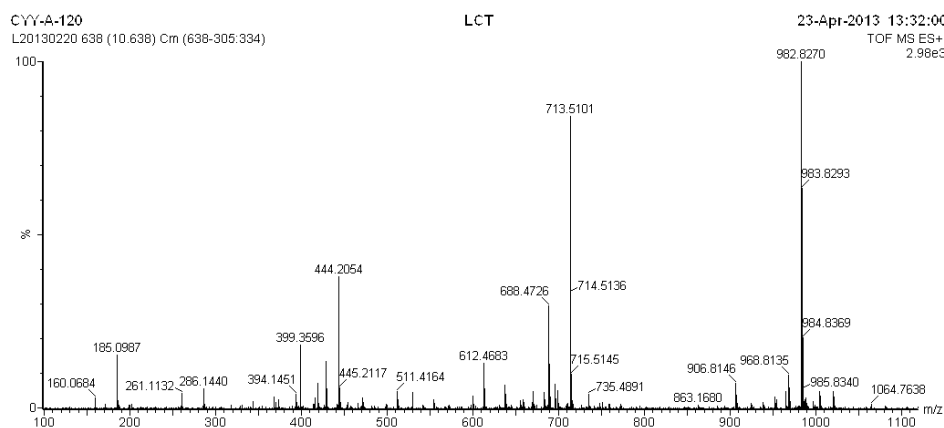


Figure S7 ESI-MS spectrum of compound 5

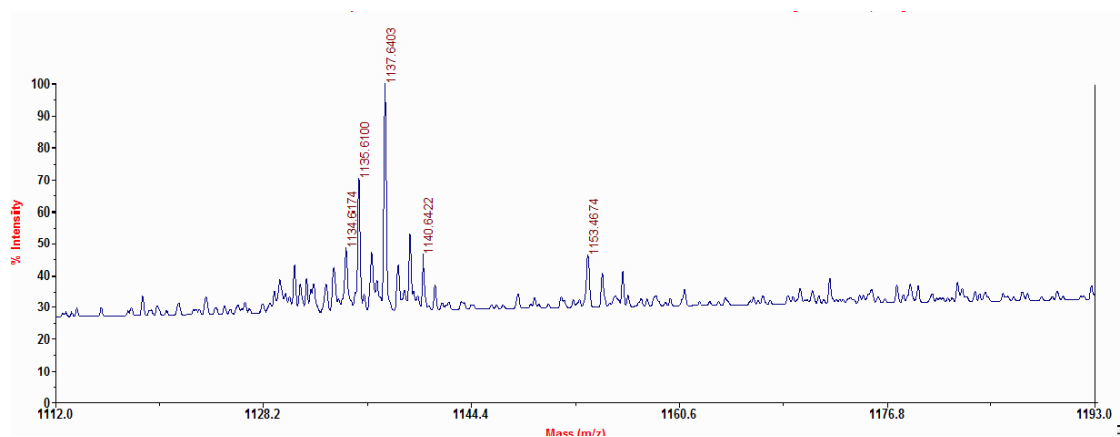


Figure S8 MALDI-TOF spectrum of compound **6**

Table S1The XPS peak table of the freeze-dried colloids powder

Name	Start BE	Peak BE	End BE	Atomic %
C1s	290.58	285.00	279.68	75.94
N1s	402.83	399.58	393.88	6.35
O1s	533.73	531.59	525.78	16.4
Gd4d	158.23	145.06	135.98	1.31

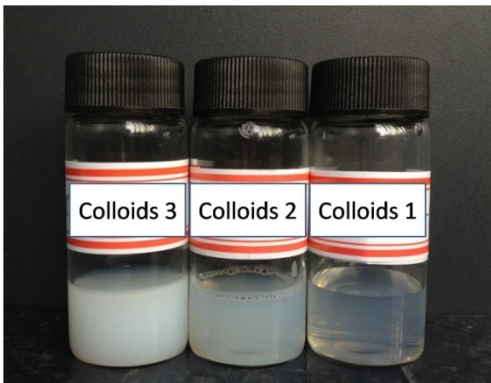


Figure S9 Optical picture of three sets of Gd(III)-colloids.

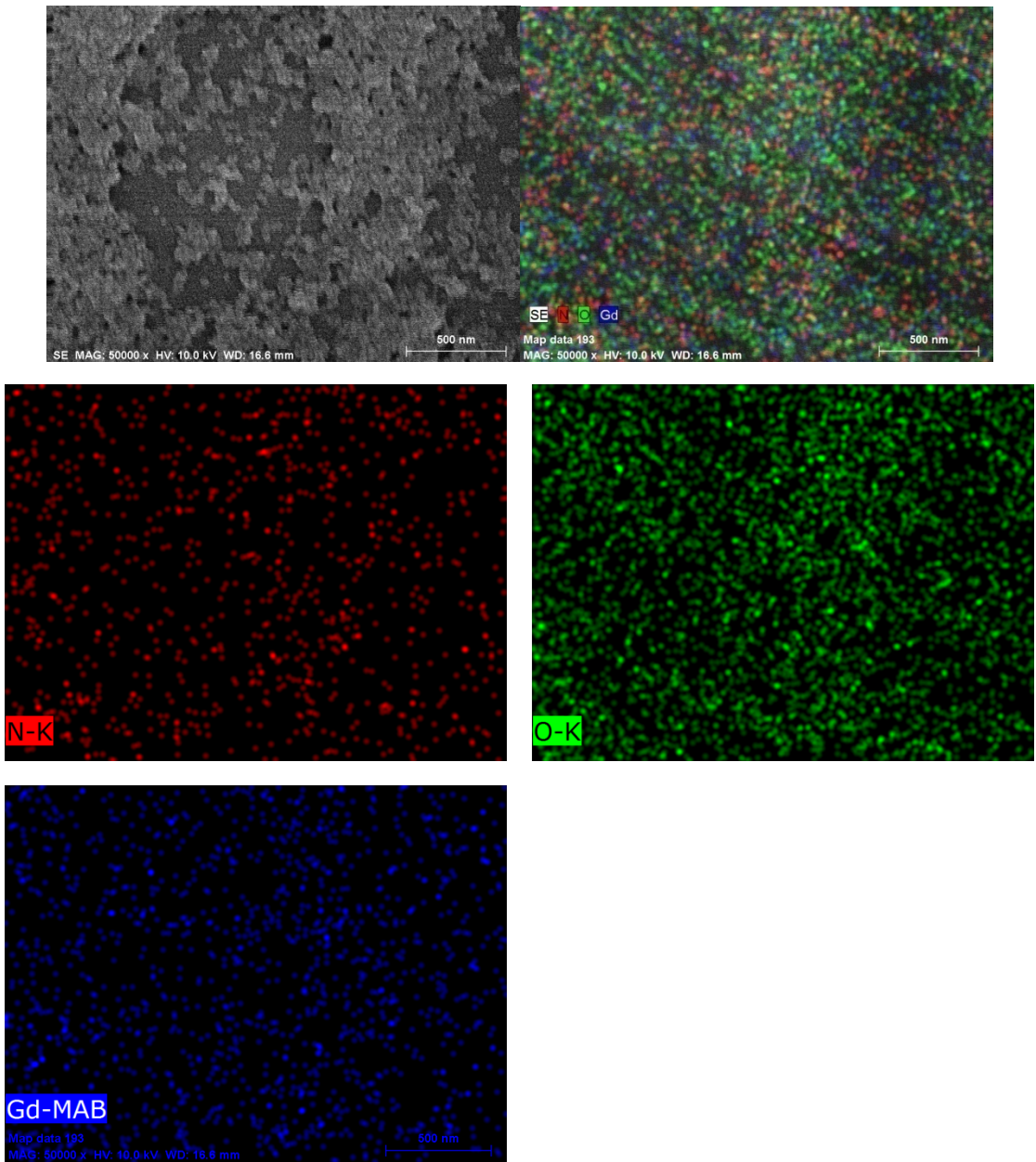


Figure S10 SEM element mapping of Gd(III)-colloids.