

Materials List for:

Magnetic and Thermal-sensitive Poly(*N*-isopropylacrylamide)-based Microgels for Magnetically Triggered Controlled Release

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Materials

Name	Company	Catalog Number	Comments
Poly(<i>N</i> -isopropylacrylamide)	Polyscience, Inc	21458-10	Mw ~40,000
(3-aminopropyl)trimethoxysilane	Sigma-Aldrich	440140	> 99 %
Iron(II) chloride tetrahydrate	Sigma-Aldrich	44939	99%
Iron(III) chloride	Sigma-Aldrich	157740	97%
Curcumin	Sigma-Aldrich	00280590	
Ammonia hydroxide	Fisher Chemical	A/3240/PB15	35%
Phosphate Buffered Saline	Sigma-Aldrich	806552	pH 7.4, liquid, sterile-filtered
Polyethylenimine (PEI)	Sigma-Aldrich	P3143	50 % (w/v) in water
High-frequency magnetic field (HFMF)	Lantech Industrial Co., Ltd., Taiwan	LT-15-80	15 kV, 50–100 kHz
Ultraviolet-Visible Spectrophotometry	Thermo Scientific Co.	Genesys	
Transmission electron microscopy (TEM)	JEM-2100	JEOL	
Fourier transform infrared spectroscopy (FTIR)	PerkinElmer	Spectrum 100	
Thermogravimetric analyzer	PerkinElmer	Pyris 1	
Ultrasonic cell disruptor	Hielscher Ultrasonics	UP50H	