

Materials List for:

Foodborne Pathogen Screening Using Magneto-fluorescent Nanosensor: Rapid Detection of *E. Coli* O157:H7

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URL: <https://www.jove.com/video/55821>

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Materials

Name	Company	Catalog Number	Comments
Ferrous Chloride Tetrahydrate	Fisher Scientific	I90-500	
Ferric Chloride Hexahydrate	Fisher Scientific	I88-500	
Ammonium Hydroxide	Fisher Scientific	A669S-500	
Hydrochloric Acid	Fisher Scientific	A144S-500	
Polyacrylic Acid	Sigma-Aldrich	323667-100G	
EDC	ThermoFisher Scientific	22980	
NHS	Fisher Scientific	AC157270250	
Anti-E. coli O111 antibody	sera care	5310-0352	
Anti-E. coli O157:H7 antibody [P3C6]	Abcam	ab75244	
Dil Stain	Fisher Scientific	D282	
Nutrient Broth	Difco	233000	
Freeze-dried E. coli O157:H7 pellet	ATCC	700728	
Magnetic Relaxometer	Bruker	mq20	
Zetasizer	Malvern	NANO-ZS90	
Plate Reader	Tecan	Infinite M200 PRO	
Magnetic Column	QuadroMACS	130-090-976	
Centrifuge	Eppendorf	5804 Series	
Centrifuge (accuSpin Micro 17)	Fisher Scientific	13-100-676	
Floor Model Shaking Incubator	SHEL LAB	SSI5	
Analytical Balance	Metler Toledo	ME104E	
Digital Vortex Mixer	Fisher Scientific	02-215-370	
Open-Air Rocking Shaker	Fisher Scientific	02-217-765	