

Materials List for:

### 3D Whole-heart Myocardial Tissue Analysis

Hans Thijs Van den Broek<sup>1</sup>, Leon De Jong<sup>1,2</sup>, Pieter A. Doevendans<sup>1</sup>, Steven A.J. Chamuleau<sup>1</sup>, Frebus J. Van Slochteren<sup>\*1</sup>, René Van Es<sup>\*1</sup>

<sup>1</sup>Department of Cardiology, Division Heart and Lungs, University Medical Center Utrecht

<sup>2</sup>MIRA Institute, University Twente

\*These authors contributed equally

Correspondence to: Steven A.J. Chamuleau at [S.A.J.Chamuleau@umcutrecht.nl](mailto:S.A.J.Chamuleau@umcutrecht.nl)

URL: <https://www.jove.com/video/54974>

DOI: [doi:10.3791/54974](https://doi.org/10.3791/54974)

#### Materials

Name	Company	Catalog Number	Comments
0.9% Saline	Braun		
Agarose	Roche Diagnostics		Scientific grade multipurpose agar
Biomolecular fluorescence scanner Typhoon 9410	GE Healthcare		
Embedding container			Plastic, dimensions 17 x 14.5 x 14 cm
FluoSpheres Polystyrene Microspheres	Invitrogen	F8834	red, 10 µm
Gadolinium	Gadovist		1.0 mmol/mL
dS 32 channel head coil	Philips		Or similar
Matlab	Mathworks		To insure compatability 2015a or newer
Meat slicer	Berkel		
Myostar injection catheter	Biosense Webster		
Super paramagnetic iron oxide particles	Sinerem		
Triphenyl-tetrazolium chloride	Merck		
UPy-PEG10k			
Vicryl 2-0	Ethicon		