

Materials List for:

A Freeze-Thawing Method to Prepare Chitosan-Poly(vinyl alcohol) Hydrogels Without Crosslinking Agents and Diflunisal Release Studies

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Materials

Name	Company	Catalog Number	Comments
Materials:			
Chitosan medium molecular weight	Sigma-Aldrich	448877	Mw determined by capillary viscometry (637,000 Da) and deacetylation degree of 70%
Diflunisal (2'-4'-difluoro-4-hydroxy-3-biphenyl-carboxylic acid)	Merck		
Glacial acetic acid	Sigma-Aldrich	1005706	
Poly(vinyl alcohol)	Sigma-Aldrich	341584	Mw 89,000-98,000, 99+% hydrolyzed
Equipment:			
Cressington Sputter Coater 108 auto	TED PELLA INC		
Cryodos Lyophilizator	Telstar		
Falcon tubes	Thermo Fisher Company		
FT-IR spectroscopy	Nicolet iS50	in ATR mode	
Lyophilizator	LABCONCO		
Micromeritics Autopore IV 9500	Micromeritics		
Scanning electron microscope	Pemtron SS-300LV		
UV-visible spectrophotometer	Agilent 8453		