

Materials List for:

Preparation of Biopolymer Aerogels Using Green Solvents

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Materials

Name	Company	Catalog Number	Comments
Equipment			
Ultraturrax homogenizer	IKA, Germany	T 25 Digital	
Polypropylene molds	TH. Geyer, Germany	9,033,201	
High pressure autoclave	Ernst Haage, Germany	custom made	Setup construction done in-house
Compressor	Andreas Hofer	MKZ 185-40	Setup construction done in-house
Nitrogen adsorption	Quantachrome	Nova 4000e	
Density meter	Anton Paar	DMA 4000	
Chemicals			
Amidated pectin	Herbstreith and Fox, Germany	CU 025	CAS # 56645-02-4; provided by company for research purposes
Sodium Hydroxide	Sigma Aldrich, Germany	S8045	CAS # 1310-73-2; required only in case the pectin solution needs to be neutralized to pH 6.5-7.5
Calcium carbonate	Magnesia GmbH, Germany	4421 Calcium carbonat, leicht, präzipitiert, EP, E170	CAS # 471-34-1
Ethanol, 99.8%	Sigma Aldrich, Germany	32205	CAS # 64-17-5
Carbon dioxide, 99.9%	AGA Gas GmbH, Germany		CAS # 124-38-9; in-house tank available (3 ton)
Deionised Water			CAS # 7732-18-5; available in-house (6.4-7.0 pH)