

The Extraction of Liver Glycogen Molecules for Glycogen Structure Determination

 Ziyi Wang^{1,2}, Qinghua Liu^{3,4}, Liang Wang^{3,5}, Robert G. Gilbert^{1,2,6}, Mitchell A. Sullivan⁷

¹School of Chemistry and Molecular Biosciences, The University of Queensland ²Centre for Nutrition and Food Sciences, Queensland Alliance for Agriculture and Food Innovation, The University of Queensland ³Jiangsu Provincial Key Laboratory of New Drug Research and Clinical Pharmacy, School of Pharmacy, Xuzhou Medical University ⁴Department of Pharmaceutical Analysis, School of Pharmacy, Xuzhou Medical University ⁵Department of Bioinformatics, School of Medical Informatics and Engineering, Xuzhou Medical University ⁶Joint International Research Laboratory of Agriculture and Agri-Product Safety, College of Agriculture, Yangzhou University ⁷Glycation and Diabetes Group, Mater Research Institute-The University of Queensland, Translational Research Institute

Corresponding Authors

Robert G. Gilbert
 b.gilbert@uq.edu.au

Mitchell A. Sullivan
 mitchell.sullivan@mater.uq.edu.au

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Materials

Name	Company	Catalog Number	Comments
8-aminopyrene-1,3,6-trisulfonate (APTS)	SIGMA Aldrich	9341	0.1 M solution
Acetic acid	SIGMA Aldrich	695092	0.1 M, pH 3.5 solution
Agilent 1260 Infinity SEC system	Agilent, Santa Clara, CA, USA		Size-exclusion chromatography (SEC)
BKS-DB/Nju background mice	Nanjing Biomedical Research Institution of Nanjing University		
D-Glucose Assay Kit (GOPOD Format)	Megazyme	K-GLUC	
Ethylenedinitrilotetraacetic acid (EDTA)	SIGMA Aldrich	431788	
Homogenizer	IKA	T 25	
Hydrochloric acid	SIGMA Aldrich	2104	0.1 M solution
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P/ACE MDQ plus system	Ab Sciex, US		Fluorophore-assisted carbohydrate electrophoresis (FACE)
Refractive index detector	Optilab UT-rEX, Wyatt, Santa Barbara, CA, USA)		Size-exclusion chromatography (SEC)
Sodium acetate	SIGMA Aldrich	241245	1 M, pH 4.5 solution
Sodium azide	SIGMA Aldrich	S2002	
Sodium chloride	SIGMA Aldrich	S9888	
Sodium cyanoborohydride	SIGMA Aldrich	156159	1 M solution
Sodium fluoride	SIGMA Aldrich	201154	
Sodium hydroxide	SIGMA Aldrich	43617	0.1 M solution
Sodium nitrate	SIGMA Aldrich	NISTRM8569	
Sodium pyrophosphate	SIGMA Aldrich	221368	

Sucrose	SIGMA Aldrich	V90016	
SUPREMA pre-column, 1,000 and 10,000 columns	Polymer Standards Services, Mainz, Germany		Size-exclusion chromatography (SEC)
Trizma	SIGMA Aldrich	T 1503	
Ultracentrifuge tubes	Beckman		4 mL, Open-Top Thinwall Ultra-Clear Tube, 11 x 60 mm