

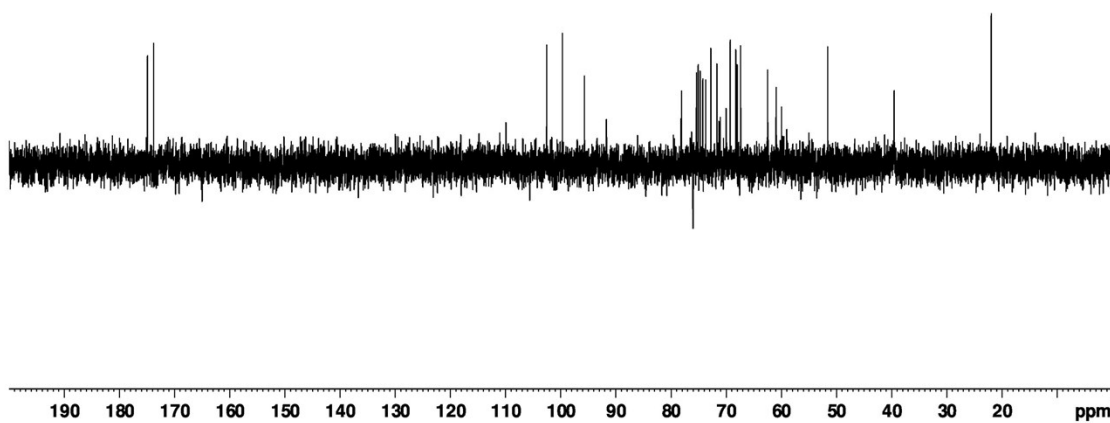
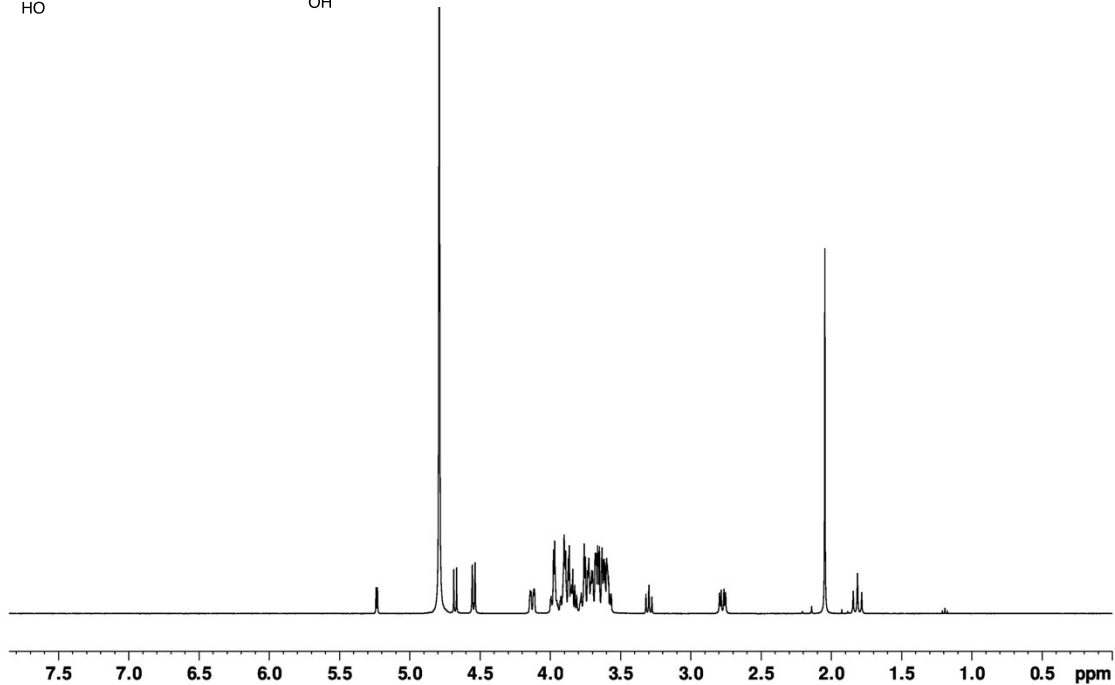
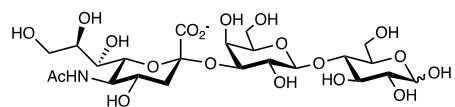
Supplementary Information for

Sialylated Variants of Lacto-*N*-Tetraose Exhibit Antimicrobial Activity Against Group B *Streptococcus*

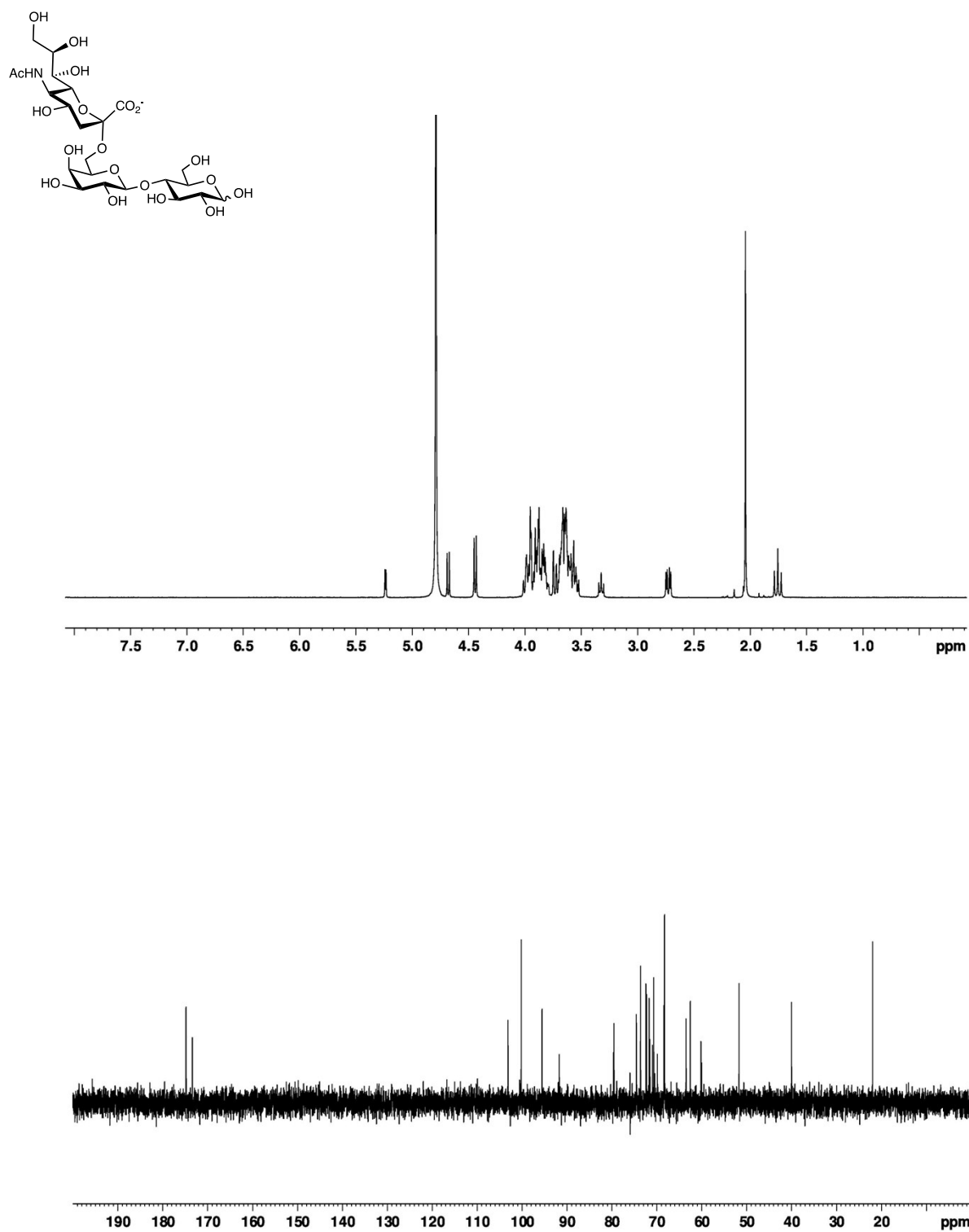
Kelly M. Craft, Harrison C. Thomas, and Steven D. Townsend*

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1. Copy of ^1H and ^{13}C NMR spectra for 3'-SL and 6'-SL	S2-S3
2. Copy of Glycom compound analysis for LST a, LST c, and DSLNT	S4-S6



^1H NMR (400 MHz, D_2O) and ^{13}C NMR (100 MHz, D_2O) spectra of 3'-siyllactose (3'-SL)



^1H NMR (400 MHz, D_2O) and ^{13}C NMR (100 MHz, D_2O) spectra of 6'-siayllactose (6'-SL)

Results of Analysis

Document number: A-GD-RoA-2018-008 v1

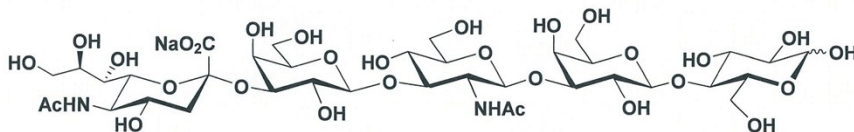
Product name: LST-a sodium salt

Company code: 17E1

Batch No: 150304_P6

CAS No: 64003-53-8

Structure of the product:



Date of manufacturing: March 03, 2015

Retest date: March 03, 2020

Parameter	Result
DESCRIPTION, CHARACTERIZATION	
Color and appearance	White fluffy solid
IDENTIFICATION	
By ¹ H NMR	Corresponds to the structure of LST-a
IMPURITIES	
Impurities by ¹ H NMR	
Sodium formate	0.035 w/w%



Benjamin Podányi
Quality Manager
22-03-2018

Results of Analysis

Document number: A-GD-RoA-2018-007 v1

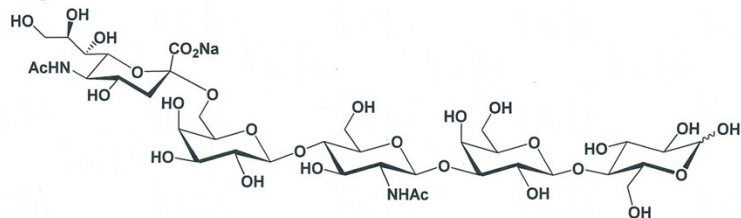
Product name: LST-c sodium salt

Company code: 18E1

Batch No: MM247-27

CAS No of the free acid: 64003-55-0

Structure of the product:



Date of manufacturing: July 2017

Retest date: July 01, 2022

Parameter	Result
DESCRIPTION, CHARACTERIZATION	
Color and appearance	White powder with agglomerates
IDENTIFICATION	
By ¹ H NMR	Corresponds to the literature NMR spectrum of LST-c
ASSAY	
By ¹ H NMR	91.4 w/w%
IMPURITIES	
Impurities by HPLC	
LNnT	0.32 w/w%
6'-Sialyllactose	2.95 w/w %
Water content by KF titration	4.34 w/w%



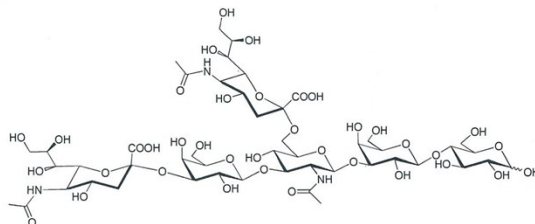
Benjamin Podányi
Quality Manager
21-03-2018

Results of Analysis

Document number: A-GD-RoA-2018-002 v1
Batch No: NK155-87

Product name: DSLNT disodium salt
CAS Number: 61278-38-4

Structure of the product:



Date of manufacturing: 2013

Retest date: 2020

Parameter	Result
DESCRIPTION, CHARACTERIZATION	
Color and appearance	White fluffy powder with agglomerates
IDENTIFICATION	
By ¹ H NMR	Corresponds to the structure of DSLNT
ASSAY	
DSLNT by ¹ H NMR	88.1 w/w%
DSLNT disodium salt by ¹ H NMR	91.1 w/w%
IMPURITIES	
Impurities by NMR	
Sodium formate	2.12 w/w%
Sodium acetate	0.48 w/w %
Methanol	0.013 w/w%

Dora Molnar-Gabor

Dora Molnar-Gabor
Head of R&D Analytics
22-03-2018