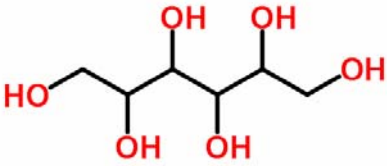


## Certificate of Analysis

Product Name	Dulcitol/ 半乳糖醇	
Catalog Number	12010	
Lot Number	120104	

Chemical Name	Dulcitol
Chemical Formula	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>
Chemical Family	Sugar Alcohol
Molecular Weight	182.17
CAS Number	608-66-2
Appearance (Color)	White
Appearance (Form)	Powder

### Analytical Test

Test	Result
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/DAD Analysis	≥ 98.0%

### Storage Conditions:

Storage:	Refer to label
Before use:	Keep container tightly closed

*TLCM certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated criteria. Warranty does not apply after opening.*

Date of Certificate: 11/06/2013

## Product Analysis Report

### Analytical Test

Test	Results
Identity by LC/MS Analysis	Consistent with structure
Purity by HPLC/DAD Analysis	≥ 98.0%

### Spectral and Physical Data

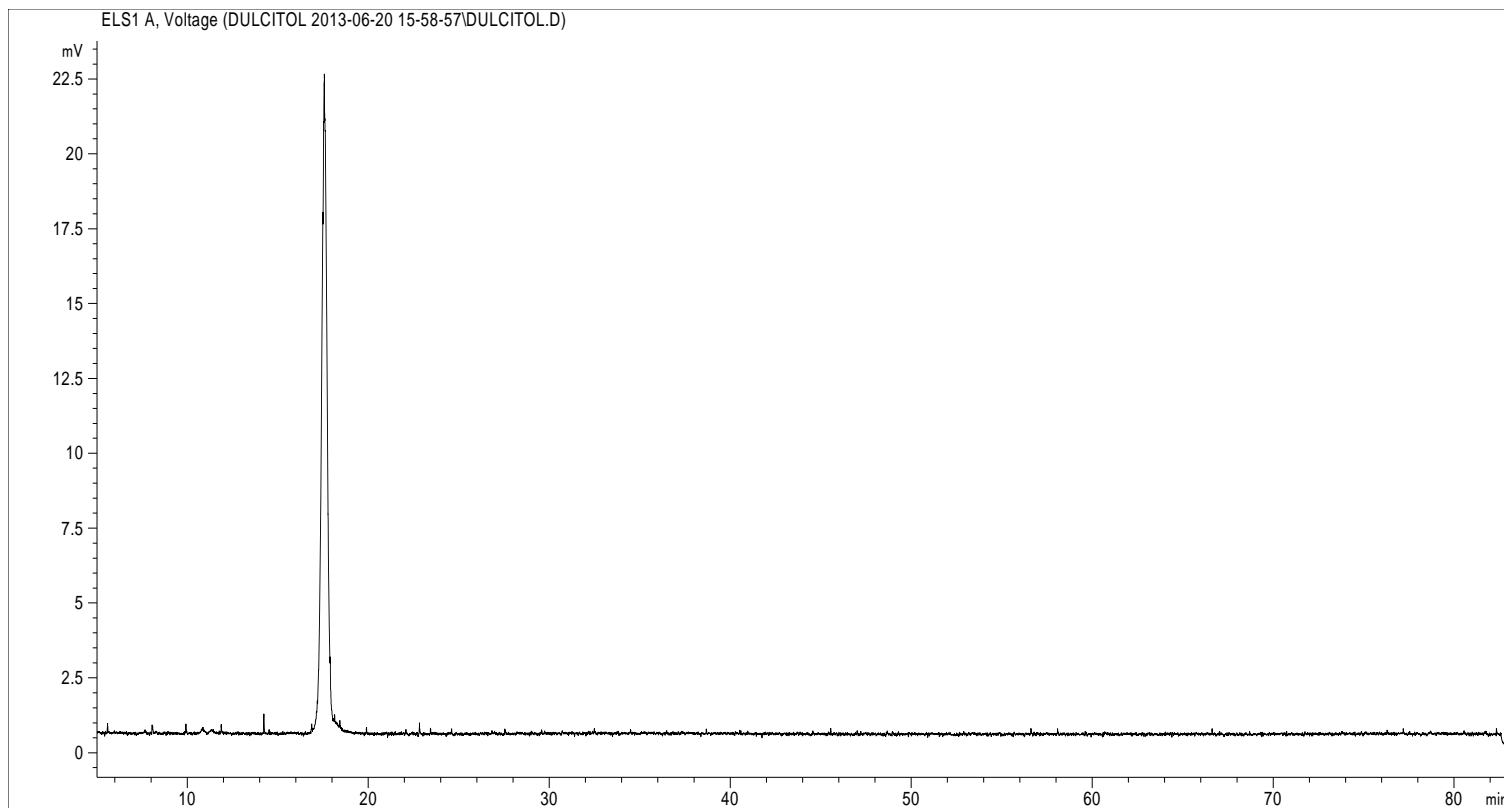
#### HPLC

HPLC system : Agilent Technologies 1200 Series  
Column : Prevail Carbohydrate ES column, 4.6 x 250 mm, 5 µm  
Injection volume : 10 µl  
Detector : ELSD  
Tube temperature : 80 °C  
N<sub>2</sub> Gas : 3.5 bar  
Mobile phase flow rate : 1.0 mL/min  
Mobile phase :

Time (min)	% H <sub>2</sub> O	% ACN	Flow rate (mL/min)
0 → 30	20	80	1.0

Date File Name : A1-D:\Chem32\2\purity test\data  
Operator : DUAN Ran  
Sample Lot Number : 120104  
Method File : D:\Chem32\2\method\DULCITOL  
Acquired : 2013-06-11

I. HPLC chromatogram



Product	RT (min)	Area (mAu*s)	Relative Area %
Dulcitol	13.0	3209.3	100