Supplementary Material

Stereoselective synthesis of 1-deoxynojirimycin, D-glucono-\(\delta\)-lactam and D-altrono-\(\delta\)-lactam from a common chiral intermediate derived from D-mannitol

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Selected compounds \(^1\)H NMR, \(^{13}\)C NMR and HRMS data were given below.
$^1$H NMR spectrum of compound 9

$^{13}$C NMR spectrum of compound 9
GC-MS spectrum of compound 9
GC-MS spectrum of compound 9
$^1$H NMR spectrum of compound 12

$^{13}$C NMR spectrum of compound 12
HRMS spectrum of compound 12

^1H NMR spectrum of compound 14
$^{13}$C NMR spectrum of compound 14

$^1$H NMR spectrum of compound 10
\[ ^{13}C \text{ NMR spectrum of compound 10} \]

\[ \text{HRMS spectrum of compound 10} \]
$^1$H NMR spectrum of compound 15a

$^{13}$C NMR spectrum of compound 15a
HRMS spectrum of compound 15a

^1H NMR spectrum of compound 15b
**1H NMR spectrum of compound 15b**

**13C NMR spectrum of compound 15b**
HRMS spectrum of compound 15b

^1^H NMR spectrum of compound 1
$^{13}$C NMR spectrum of compound 1

HRMS spectrum of compound 1
$^1$H NMR spectrum of compound 5

$^{13}$C NMR spectrum of compound 5
HRMS spectrum of compound 5

$^1$H NMR spectrum of compound 6
$$\text{compound 6}$$

$^{13}\text{C} \text{ NMR spectrum of compound 6}$

$\text{HRMS spectrum of compound 6}$