Supplementary Material

Stereoselective synthesis of 1-deoxynojirimycin, D-glucono-δ-lactam and D-altrono-δ-lactam from a common chiral intermediate derived from D-mannitol

Mettu Ravinder,$^*$ Thatikonda Narendar Reddy, Budde Mahendar, and Vaidya Jayathirtha Rao *

*Crop Protection Chemicals Division, Indian Institute of Chemical Technology, Uppal Road, Tarnaka, Hyderabad 500607, India
$Present address: Genomics Research Center, Academia Sinica, 128 Academia Road, Section 2, Nankang, Taipei 115, Taiwan (ROC)
E-mail: ravi_iictindia@yahoo.co.in; jrao@iict.res.in

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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
\[ ^{13}\text{C} \text{ NMR spectrum of compound 14} \]

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

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

\[ ^{13}C \text{ NMR spectrum of compound 15a} \]
HRMS spectrum of compound 15a

¹H NMR spectrum of compound 15b
$^{1}H$ NMR spectrum of compound 15b

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

\[ \text{HO}_2 \text{CH}_2 \text{CH}_2 \text{HO} \]

\( \text{Compound 1} \)

\( ^1\text{H NMR spectrum of compound 1} \)
$^{13}$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

\[ \text{compound 6} \]

\[ \text{\(^1\)H NMR spectrum of compound 6} \]
$^{13}$C NMR spectrum of compound 6

HRMS spectrum of compound 6