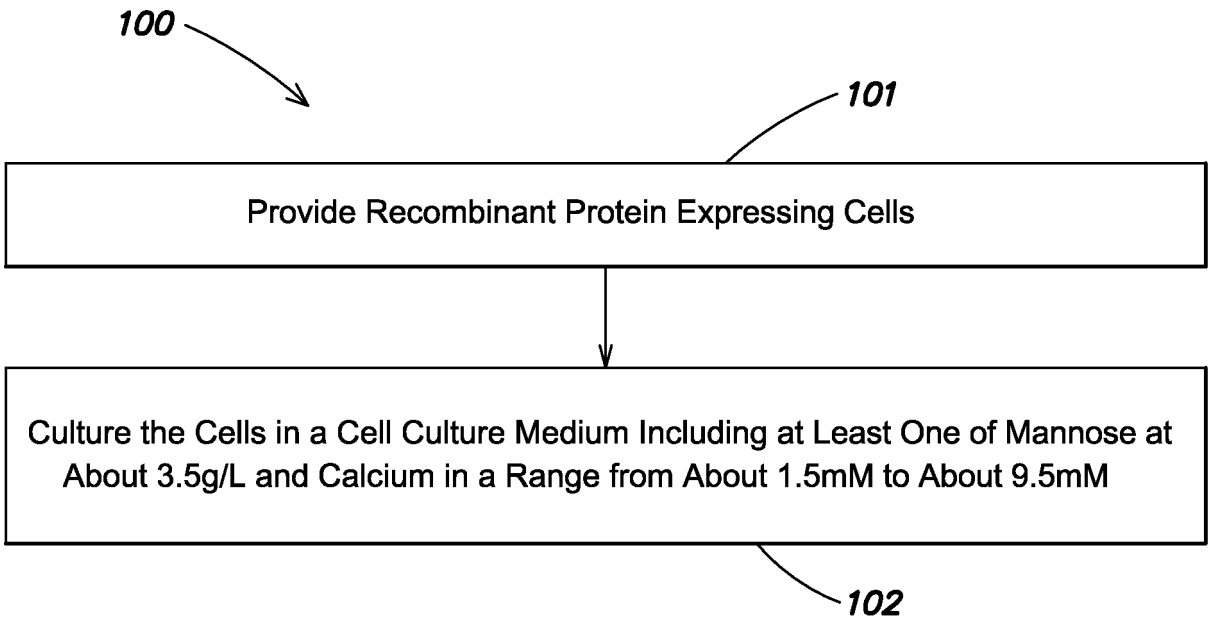

100
101
Provide Recombinant Protein Expressing Cells
Culture the Cells in a Cell Culture Medium Including at Least One of Mannose at About 3.5g/L and Calcium in a Range from About 1.5mM to About 9.5mM
102

FIG. 1

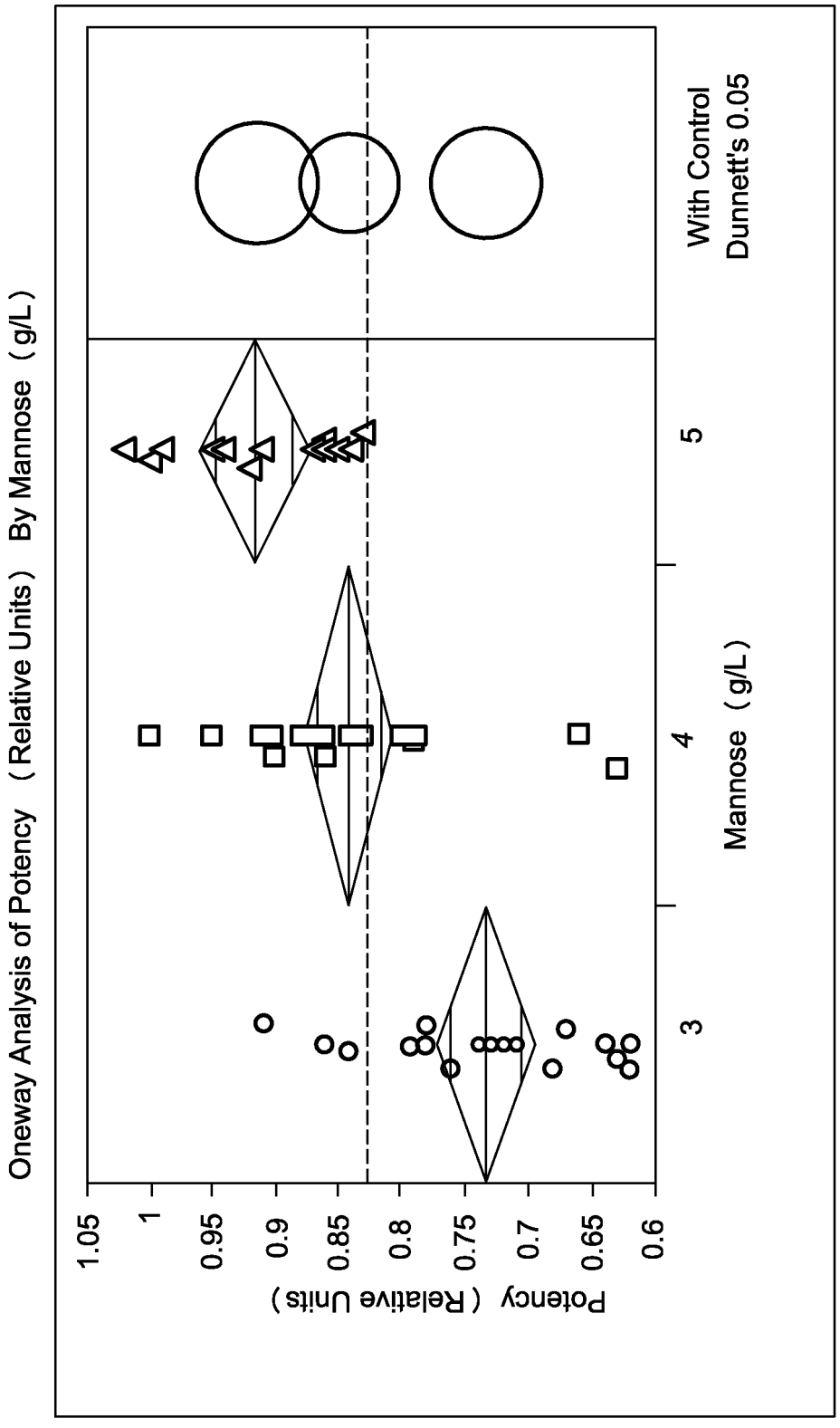

Oneway Analysis of Potency (Relative Units) By Mannose (g/L)
Potency (Relative Units)
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
3
4
5
Mannose (g/L)
With Control
Dunnett's 0.05

FIG. 2

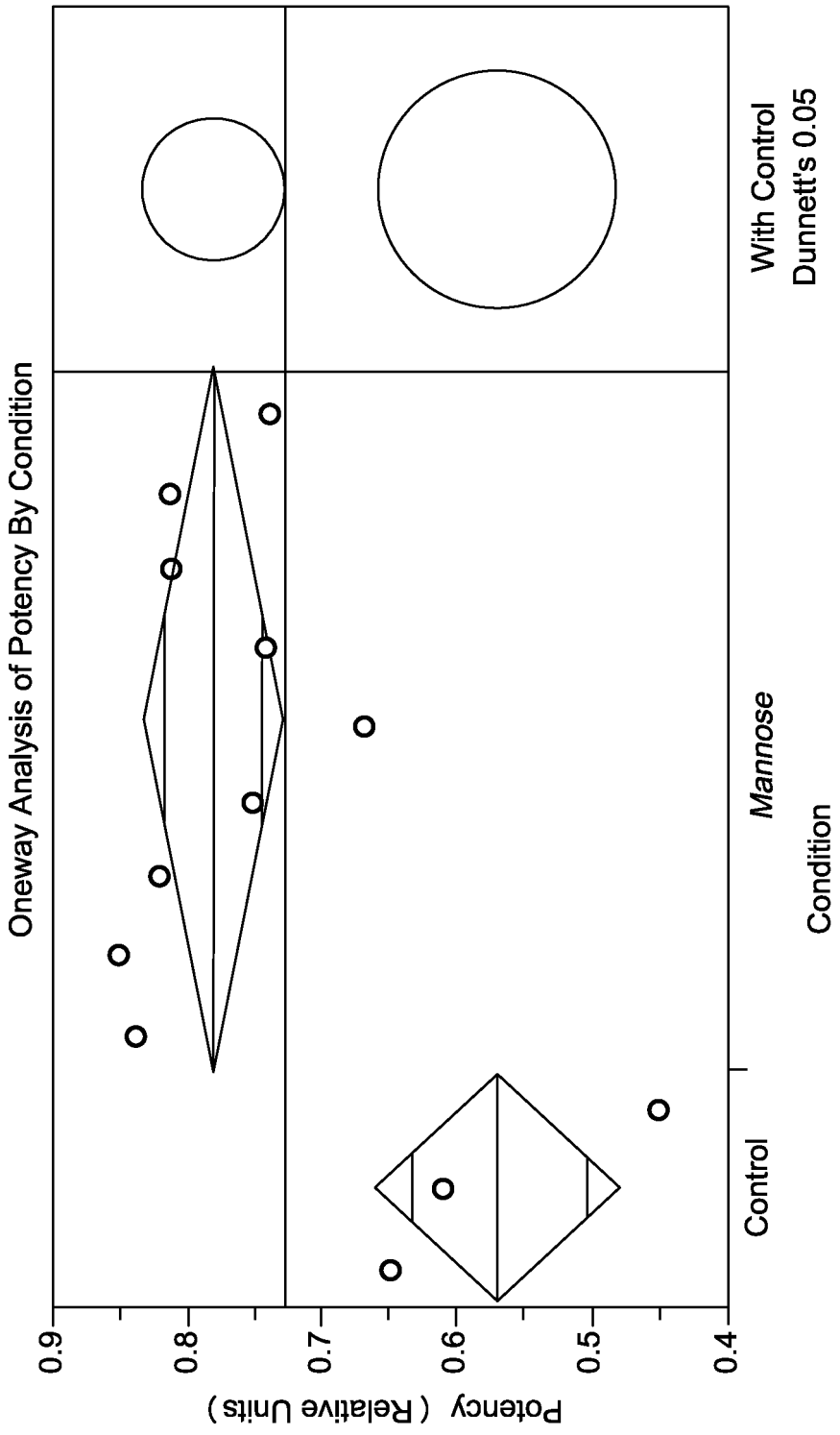

Oneway Analysis of Potency By Condition
Potency (Relative Units)
0.9
0.8
0.7
0.6
0.5
0.4
Control
Mannose
Condition
With Control
Dunnett's 0.05

FIG. 3

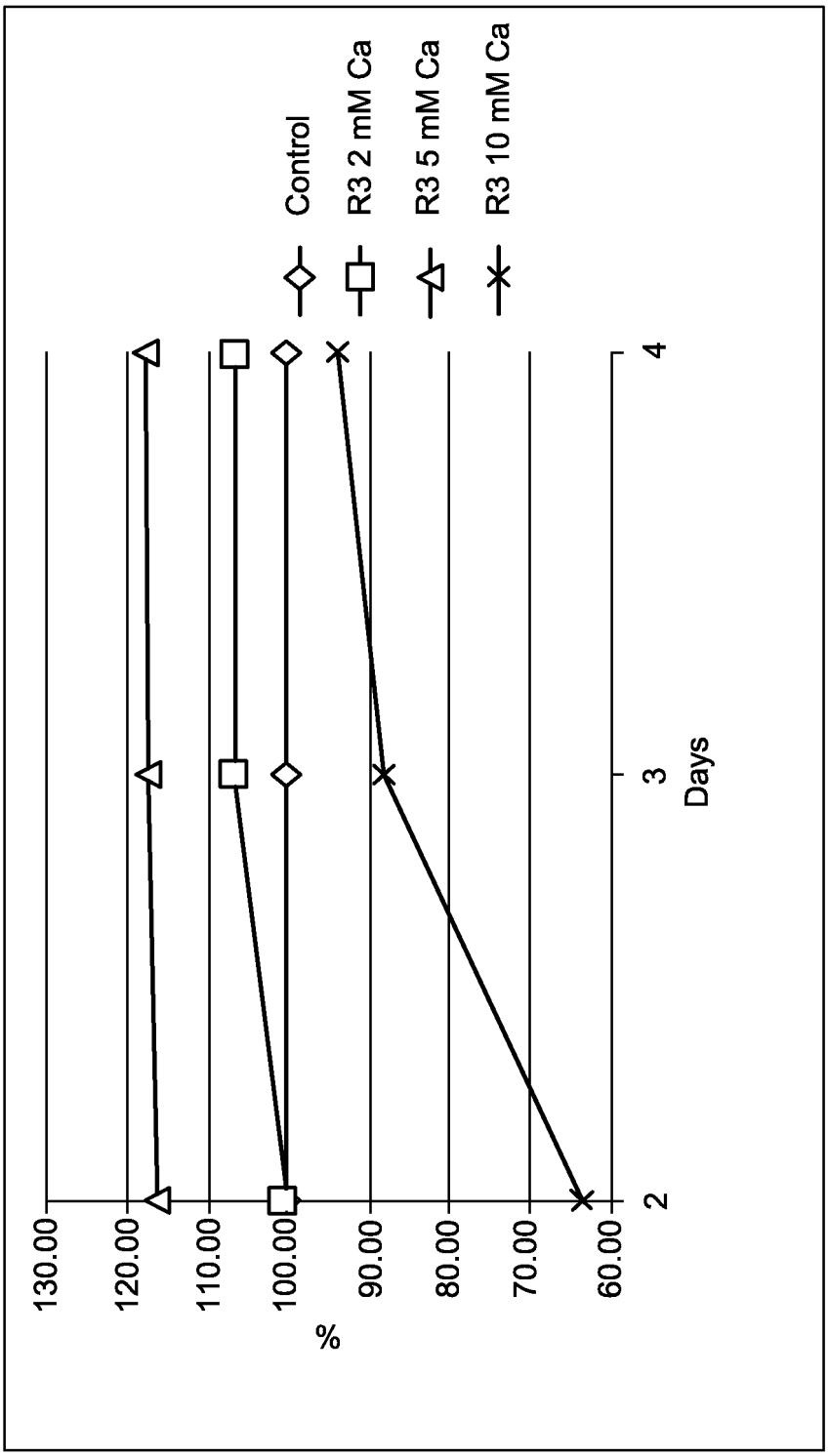

Control
R3 2 mM Ca
R3 5 mM Ca
R3 10 mM Ca
130.00
120.00
110.00
100.00
90.00
80.00
70.00
60.00
%
2
3
4
Days

FIG. 4

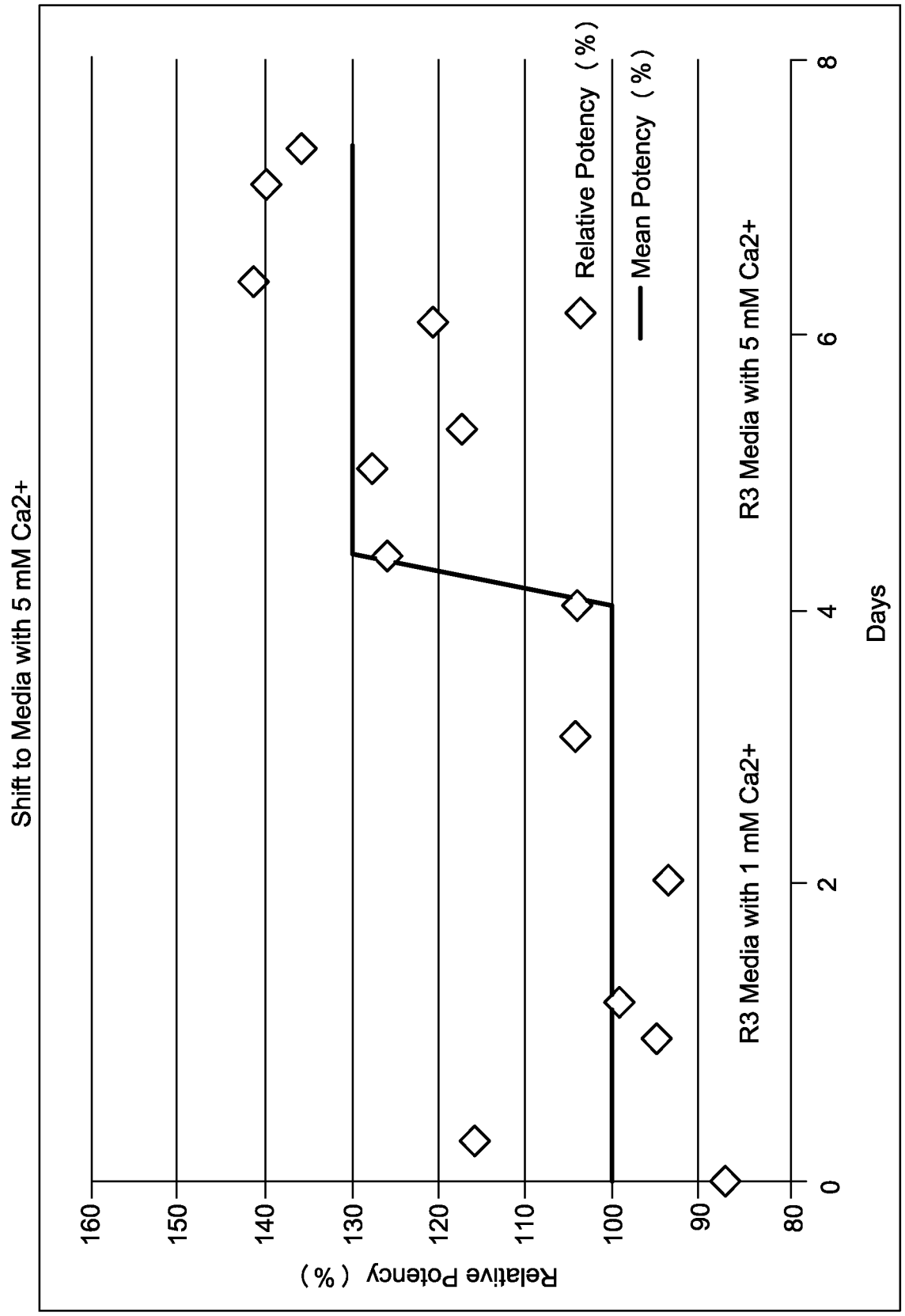

Shift to Media with 5 mM Ca2+
Relative Potency (%)
160
150
140
130
120
110
100
90
80
0
2
4
6
8
Days
R3 Media with 1 mM Ca2+
R3 Media with 5 mM Ca2+
Relative Potency (%)
Mean Potency (%)

FIG. 5

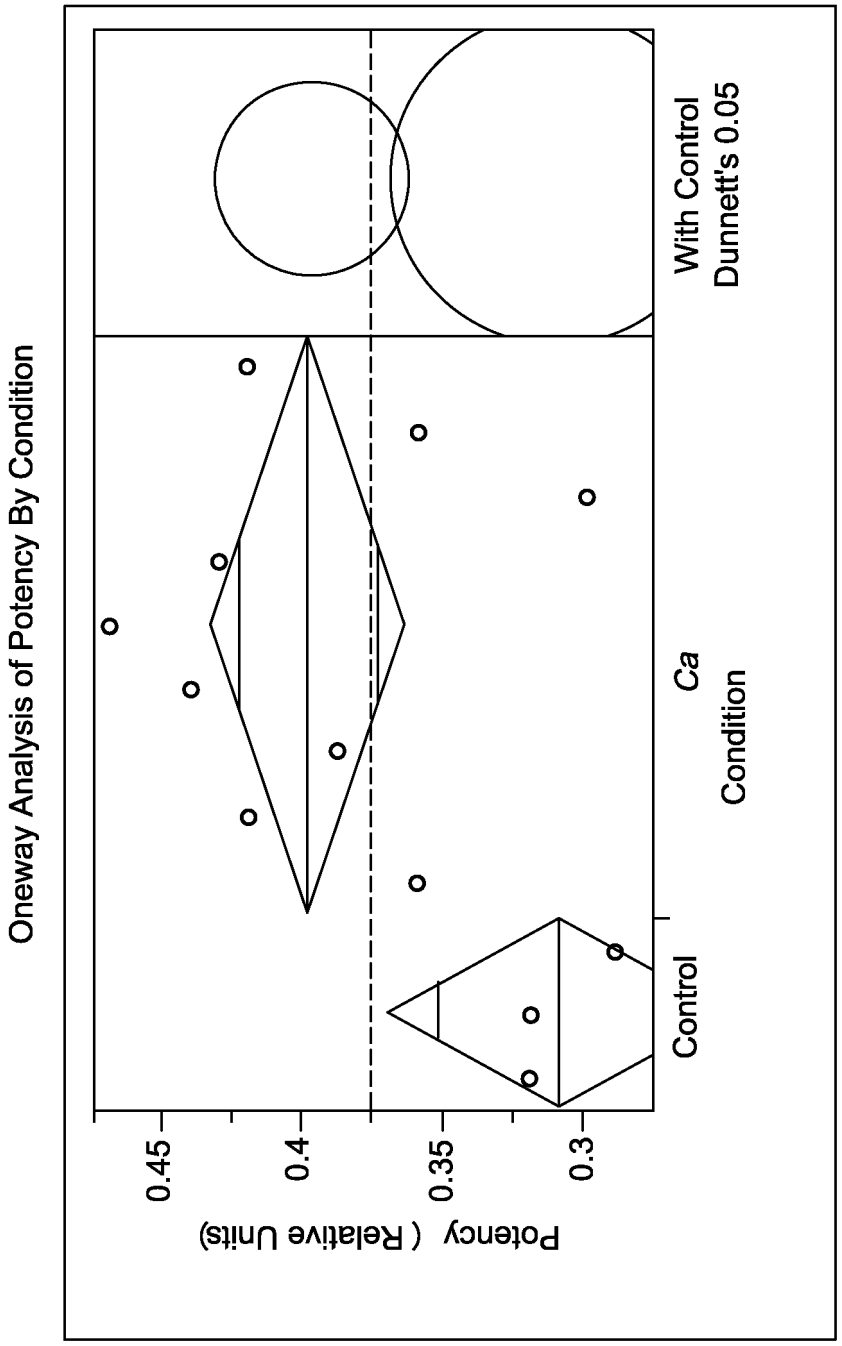

Oneway Analysis of Potency By Condition
Potency (Relative Units)
0.45
0.4
0.35
0.3
Control
Ca
Condition
With Control
Dunnett's 0.05

FIG. 6

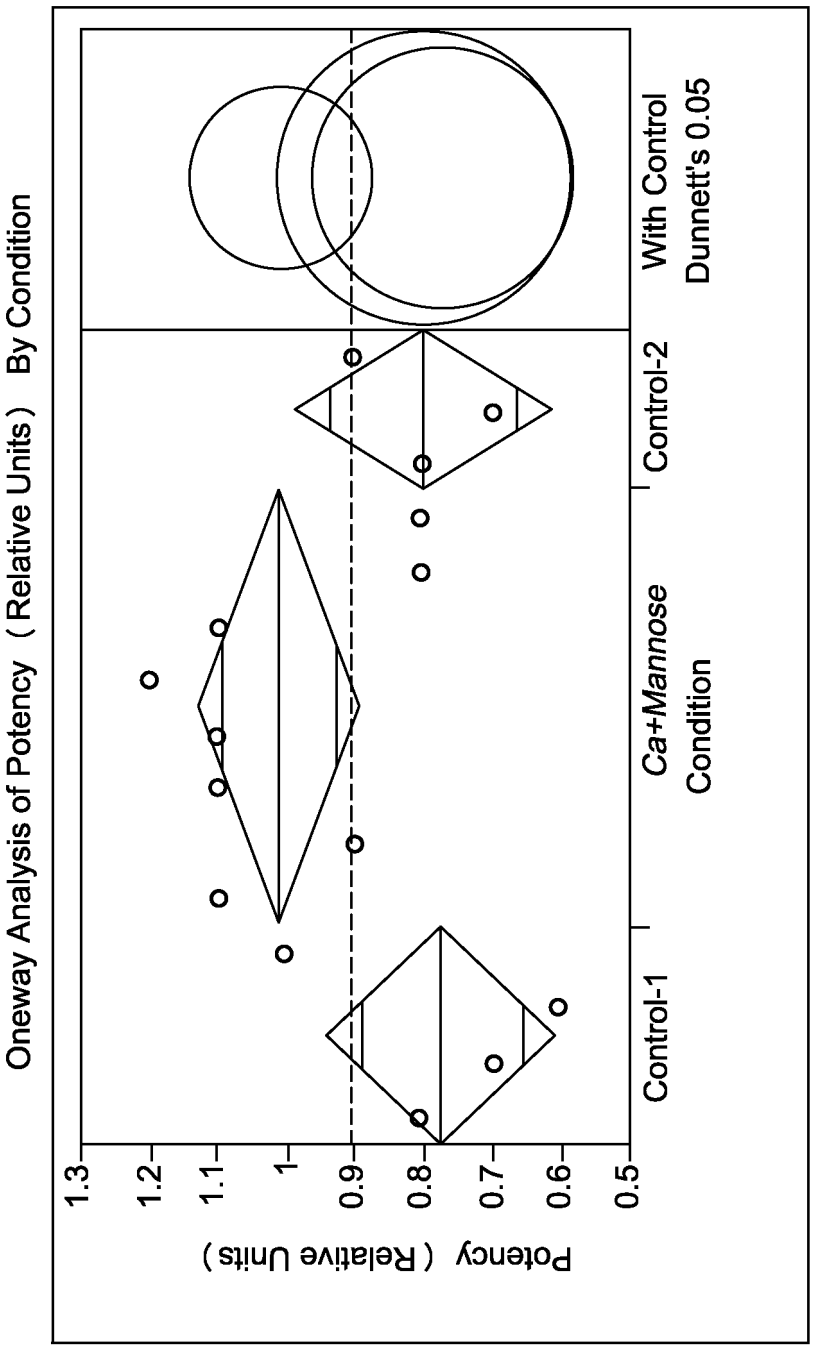

Oneway Analysis of Potency (Relative Units) By Condition
Potency (Relative Units)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
Control-1
Ca+Mannose
Control-2
Condition
With Control
Dunnett's 0.05

FIG. 7A

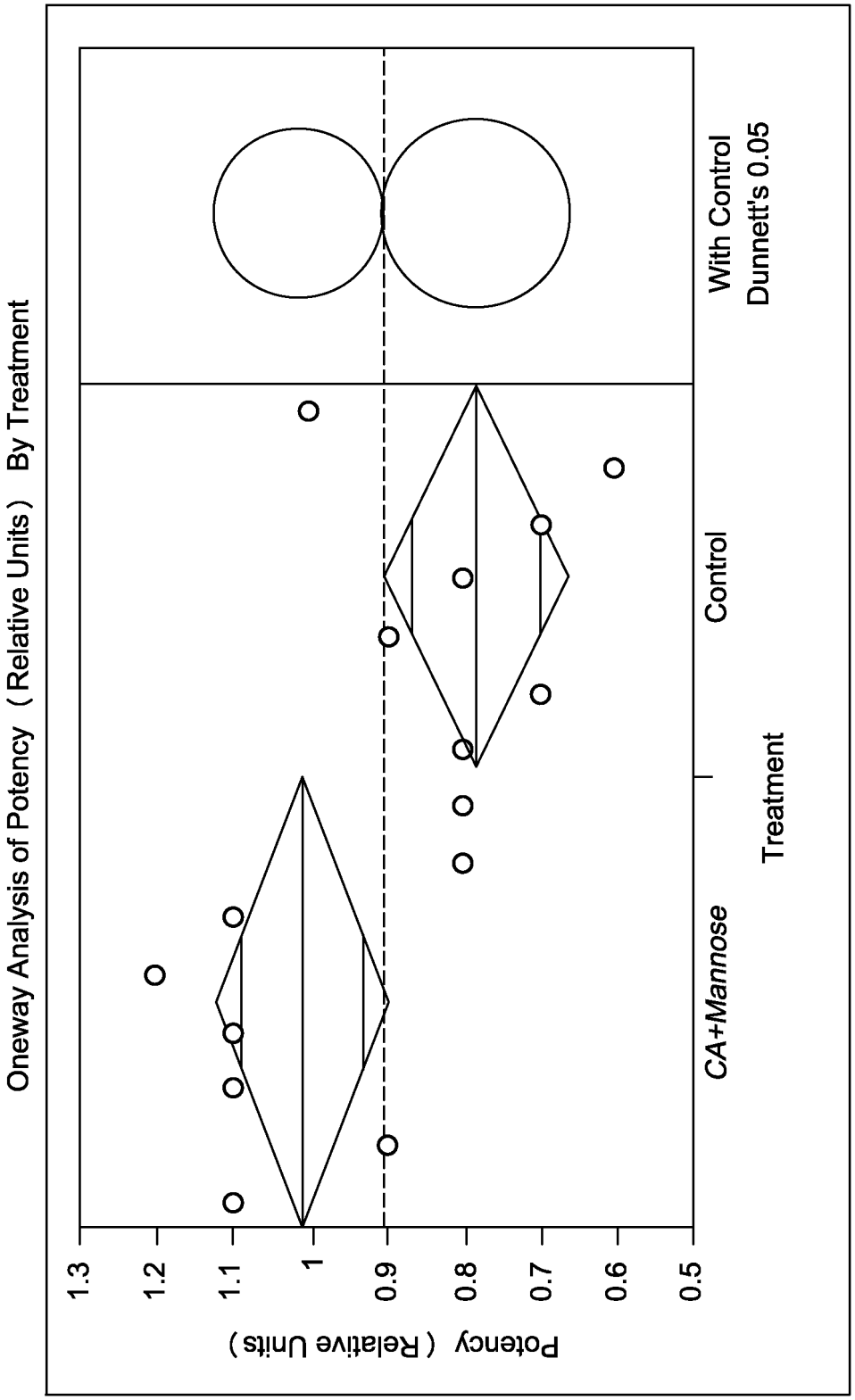

Oneway Analysis of Potency (Relative Units) By Treatment
Potency (Relative Units)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
CA+Mannose
Control
Treatment
With Control
Dunnett's 0.05

FIG. 7B

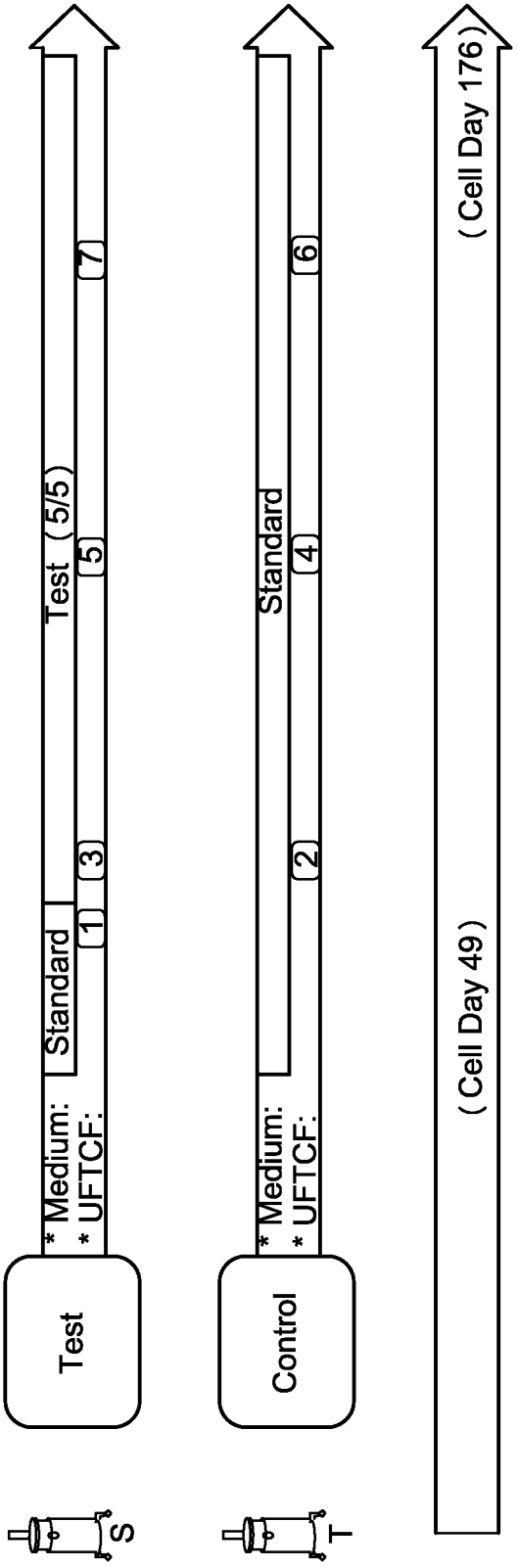

Test
* Medium:
* UFTCF:
Standard
Test (5/5)
1
3
5
7
S
Control
* Medium:
* UFTCF:
Standard
2
4
6
T
(Cell Day 49)
(Cell Day 176)
Cell Day Refers to Days from Cell Bank Thaw

FIG. 8A

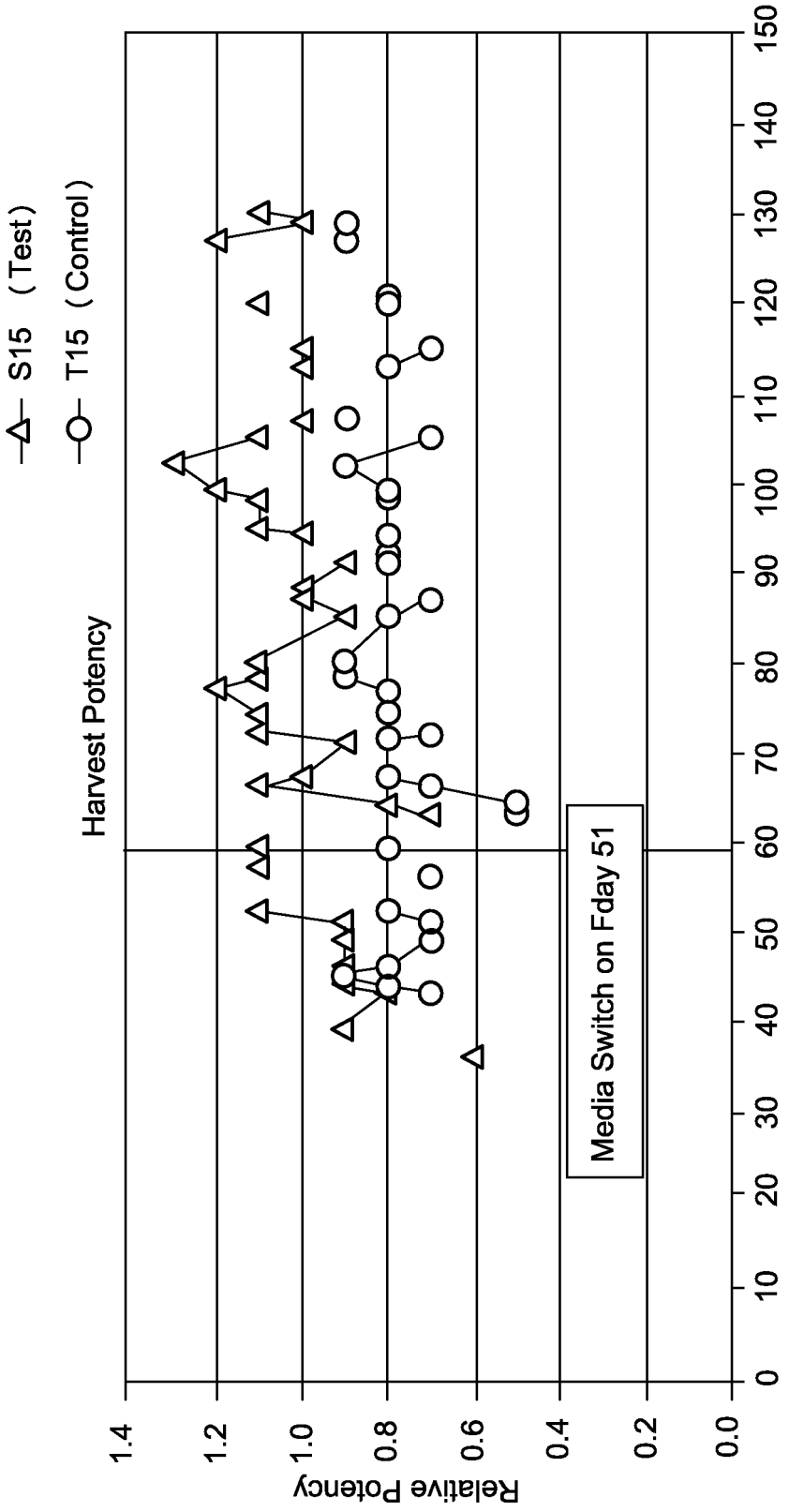

S15 (Test)
T15 (Control)
Harvest Potency
Media Switch on Fday 51
Relative Potency
Fermenter Day
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

FIG. 8B

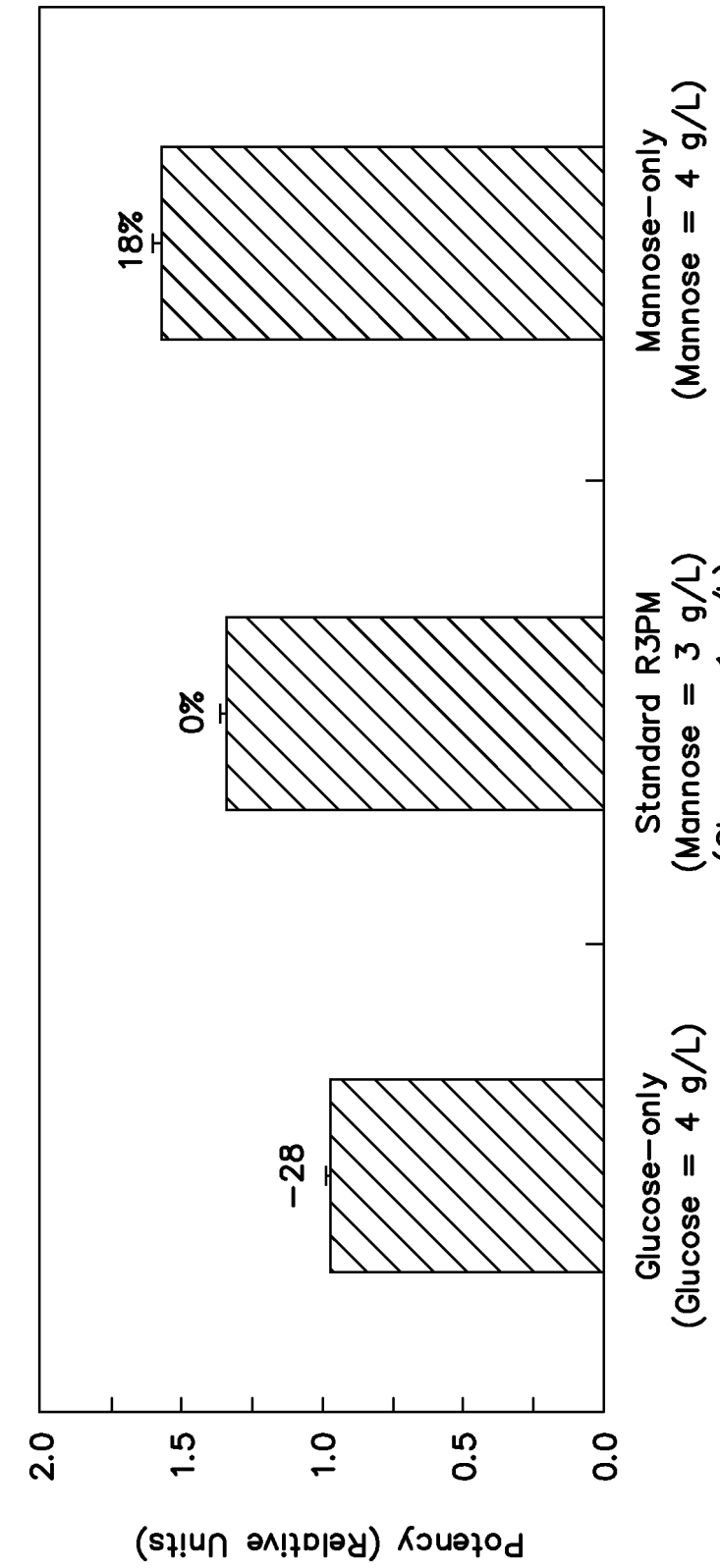

Potency (Relative Units)
2.0
1.5
1.0
0.5
0.0
-28
0%
18%
Glucose-only
(Glucose = 4 g/L)
Standard R3PM
(Mannose = 3 g/L)
(Glucose = 1 g/L)
Mannose-only
(Mannose = 4 g/L)
Medium

FIG. 9