Figure 1

	T2R13	T2R44	T2R14	T2R60	T2R9	T2R4	T2R39	T2R38 "PAV"
KCl	✓	✓	✓	✓	✓	✓	✓	✓
K-lactate	✓	✓	✓	✓	✓	✓		
Acesulfame –K	✓	✓	✓		✓	✓	✓	✓
K-benzoate	✓	✓	✓	✓	✓	✓	✓	✓
K-acetate	✓	✓	✓	✓	✓	✓		
K-sorbate	✓	✓	✓	✓	✓	✓	✓	✓
K-nitrate	✓	✓	✓	✓	✓	✓	✓	✓
K-gluconate	✓	✓	✓		✓	✓	✓	✓
K-phosphate (dibasic)	✓	✓	✓	✓	✓	✓	✓	✓
K-sulfate	✓	✓	✓	✓	✓	✓	✓	✓

Figure 2

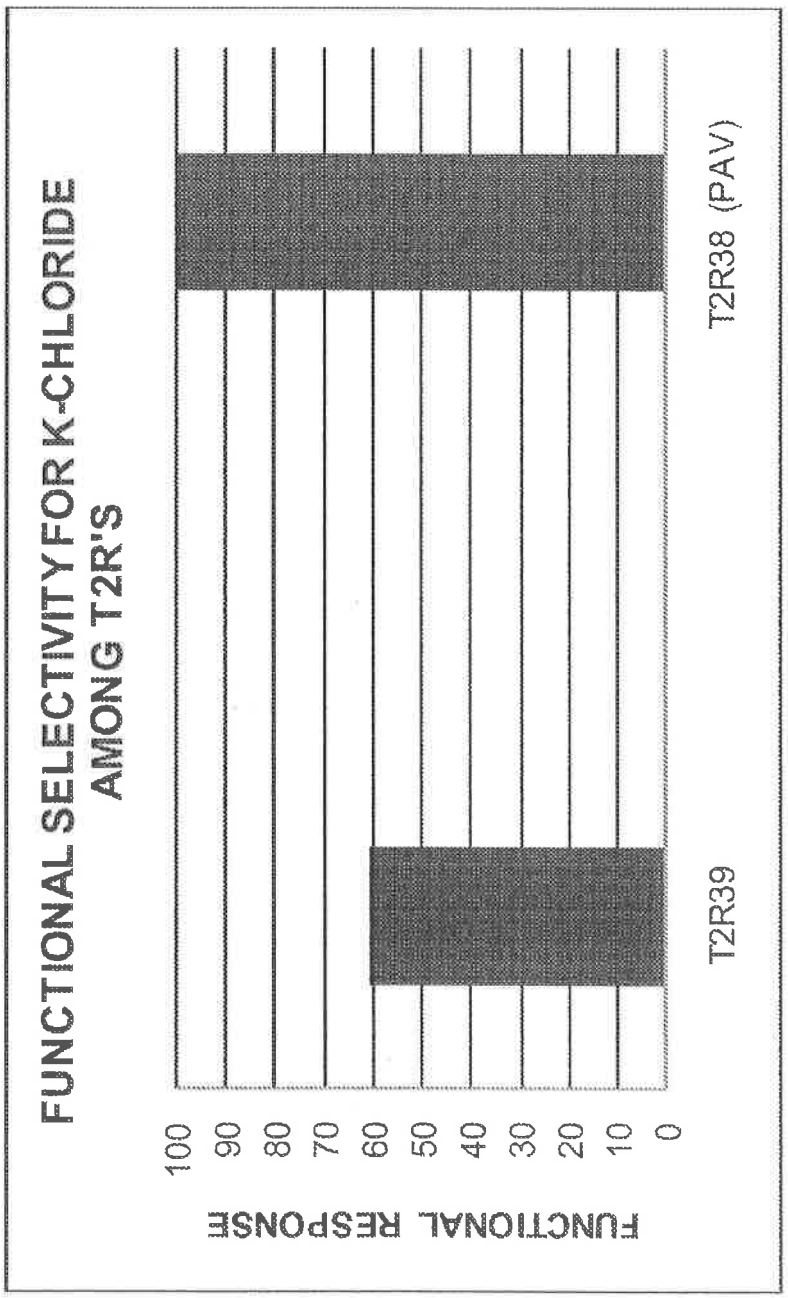

FUNCTIONAL SELECTIVITY FOR K-CHLORIDE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R39
T2R38 (PAV)

Figure 3

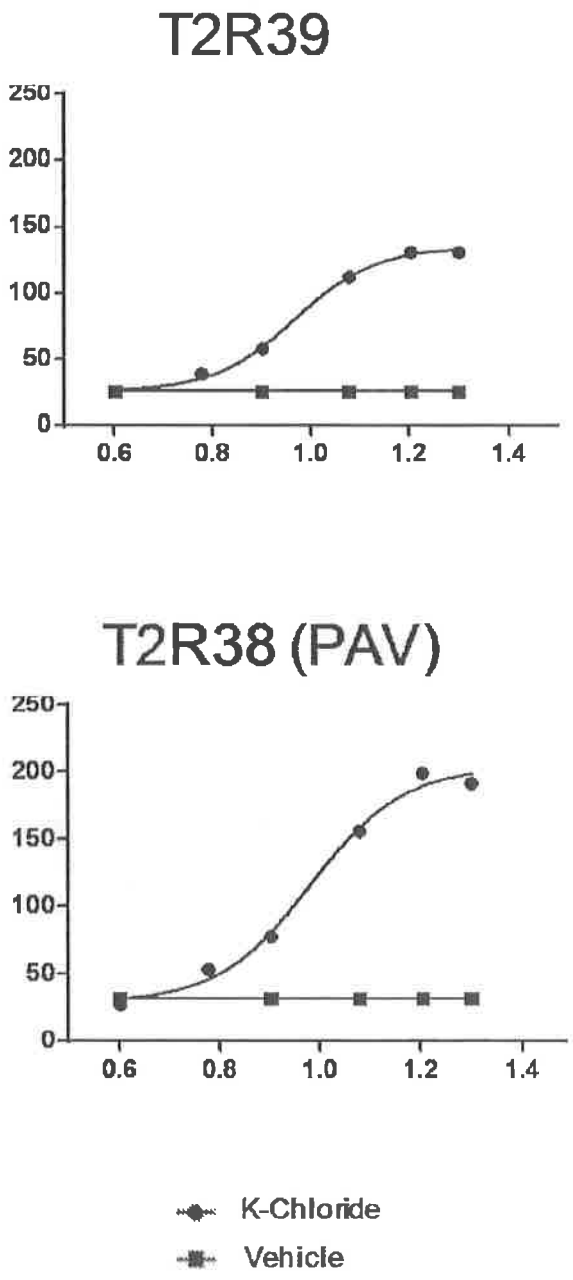

T2R39
250
200
150
100
50
0
0.6
0.8
1.0
1.2
1.4
T2R38 (PAV)
250
200
150
100
50
0
0.6
0.8
1.0
1.2
1.4
K-Chloride
Vehicle

Figure 4

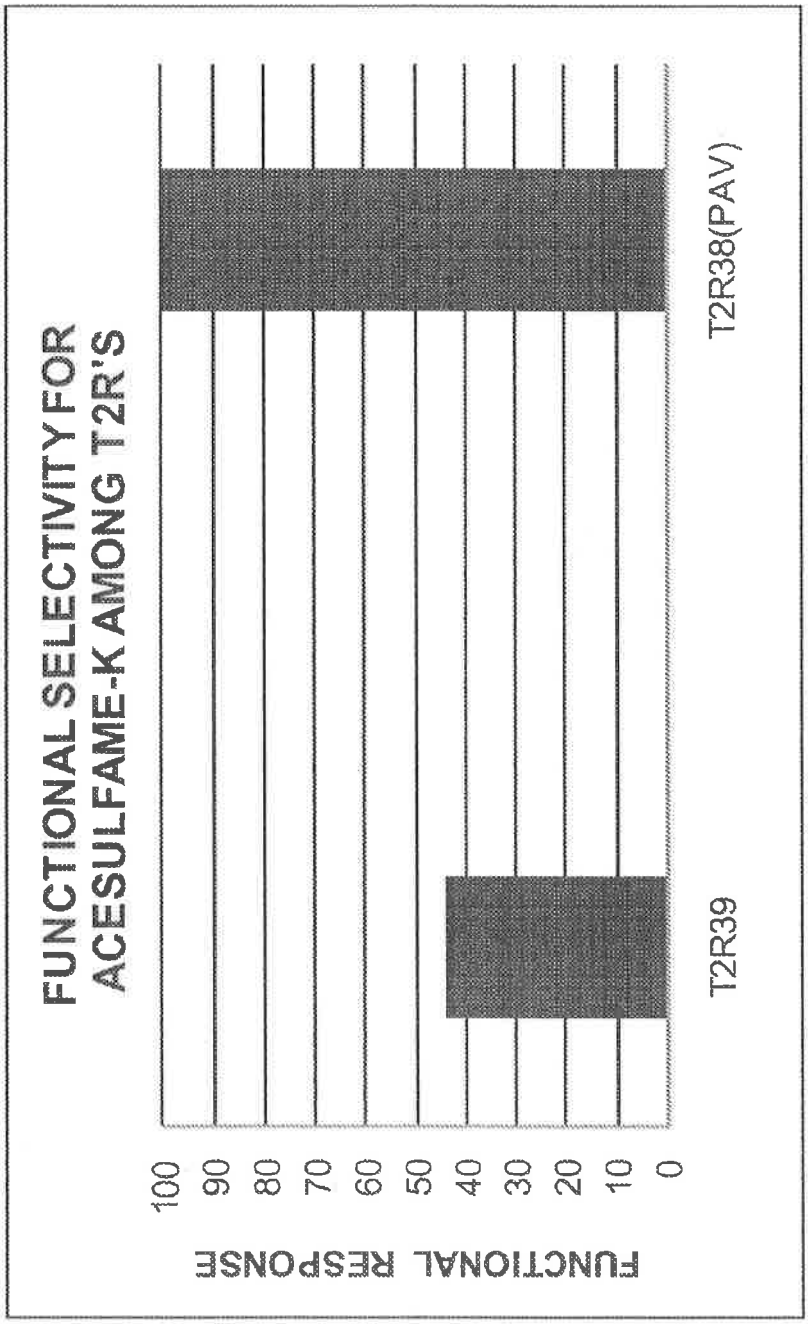

FUNCTIONAL SELECTIVITY FOR ACESULFAME-K AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R38(PAV)
T2R39

Figure 5

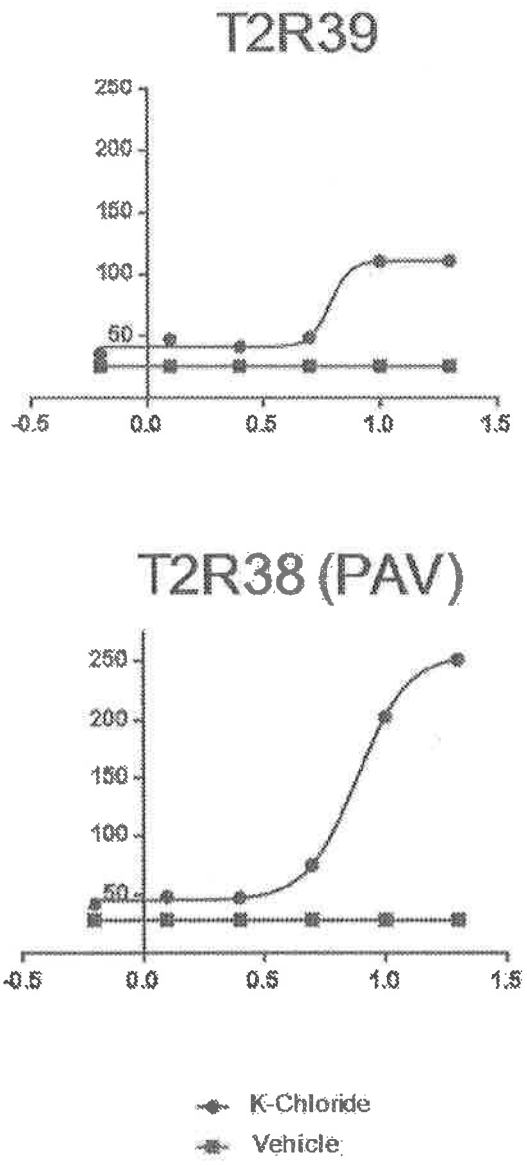

T2R39
250
200
150
100
50
-0.5
0.0
0.5
1.0
1.5
T2R38 (PAV)
250
200
150
100
50
-0.5
0.0
0.5
1.0
1.5
K-Chloride
Vehicle

Figure 6

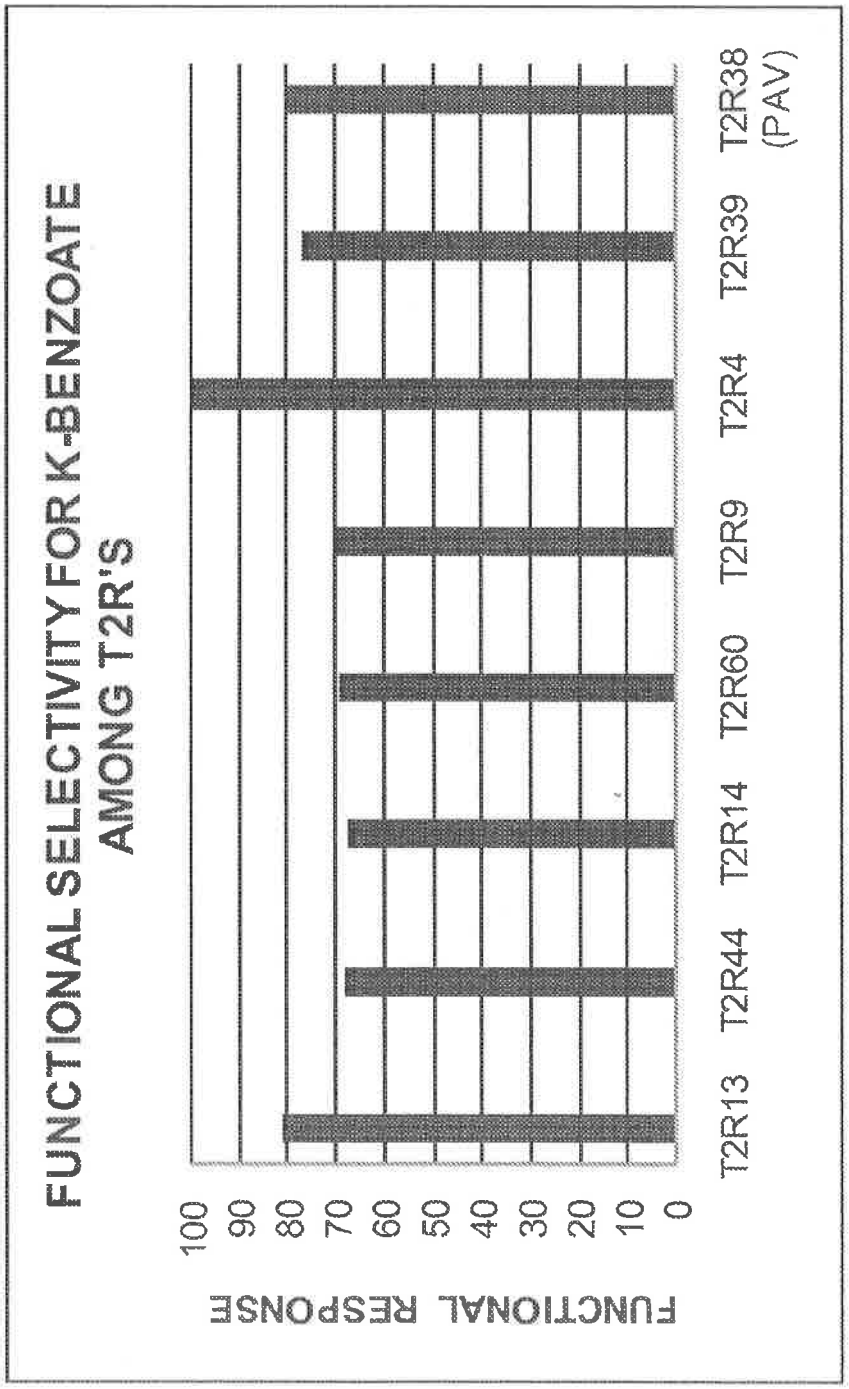

FUNCTIONAL SELECTIVITY FOR K-BENZOATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4
T2R39
T2R38 (PAV)

Figure 7

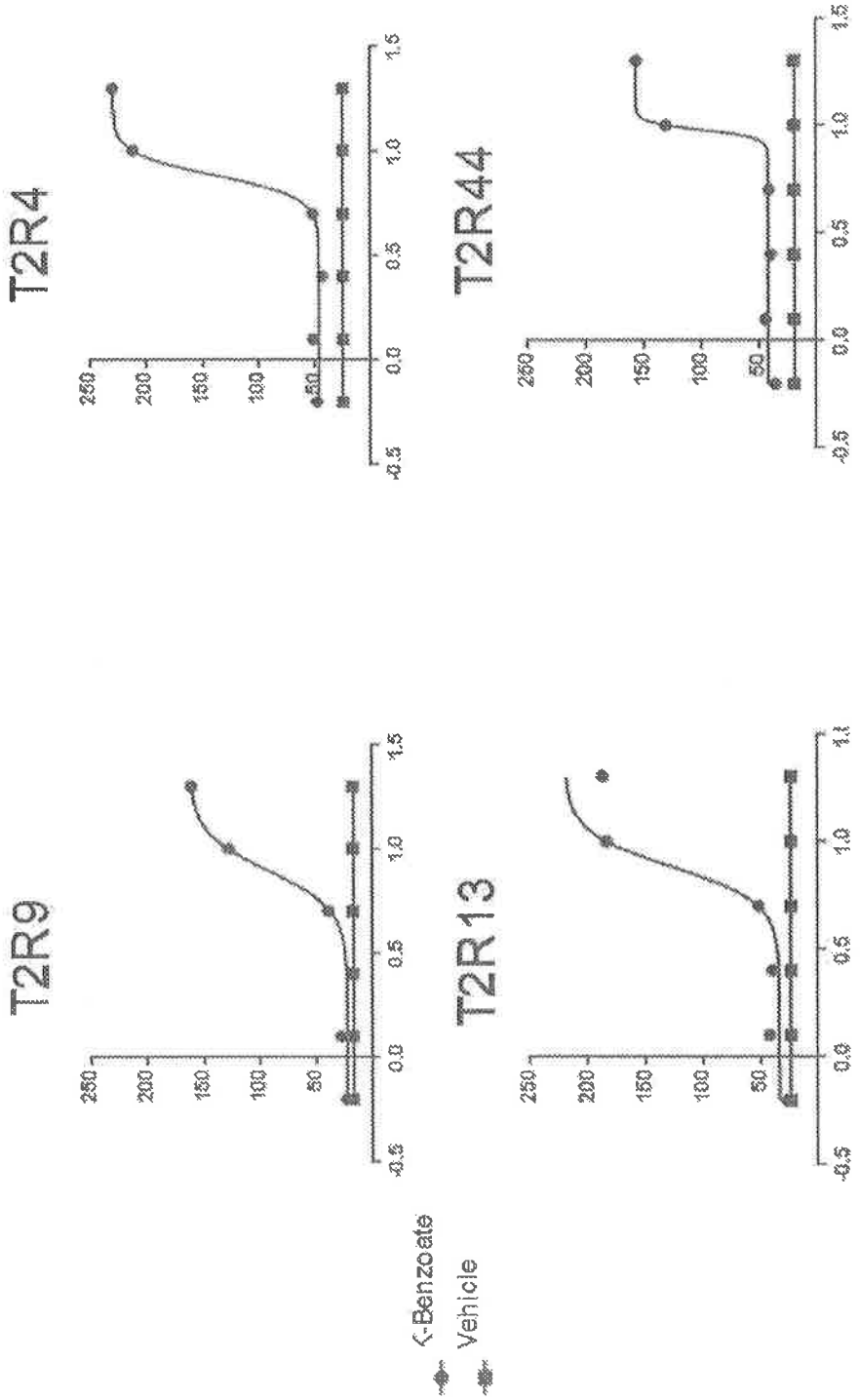

T2R4
T2R44
T2R9
T2R13
250
200
150
100
50
0.0
0.5
1.0
1.5
-0.5
K-Benzoate
Vehicle

Figure 7 (Cont.)

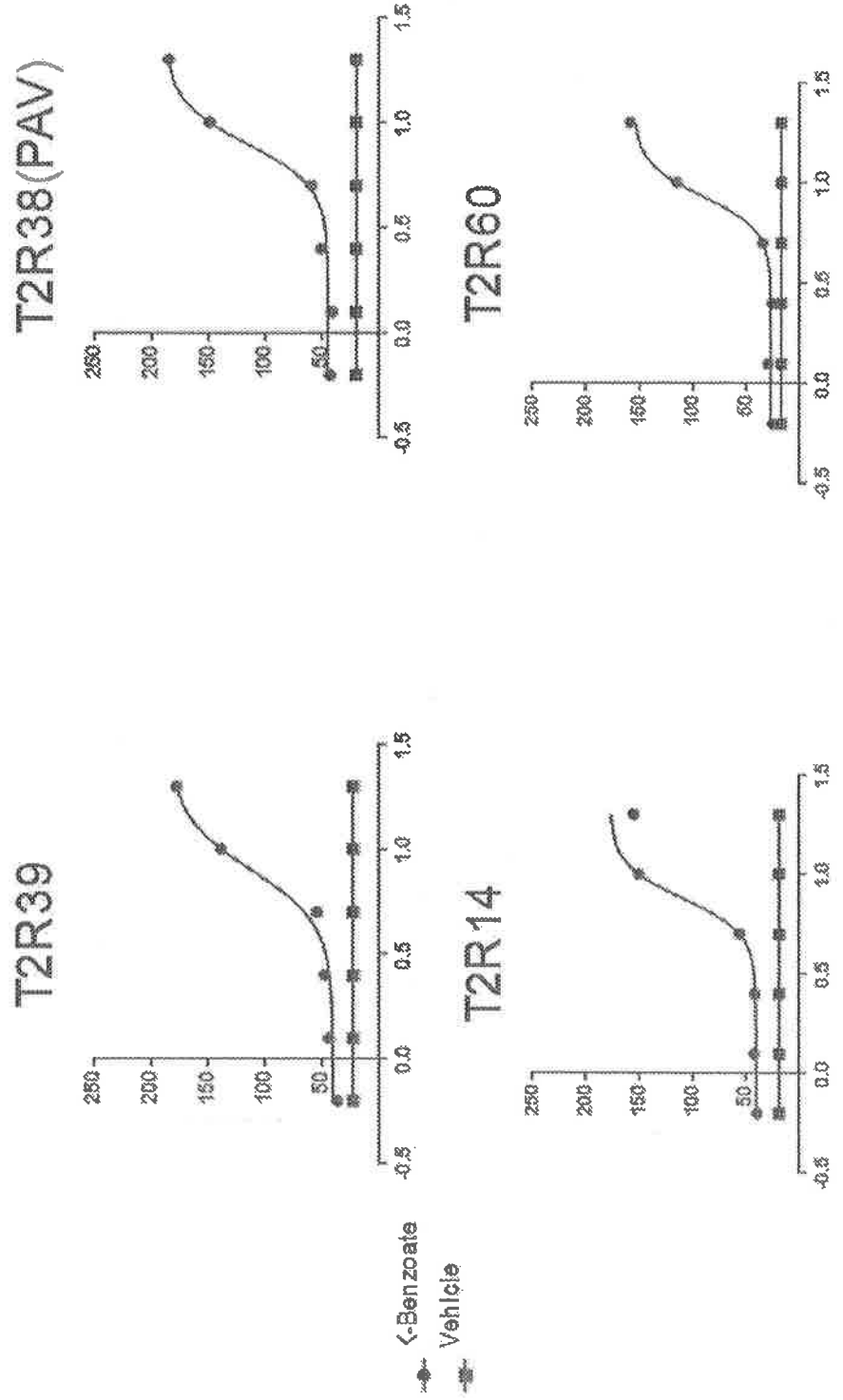


Figure 8

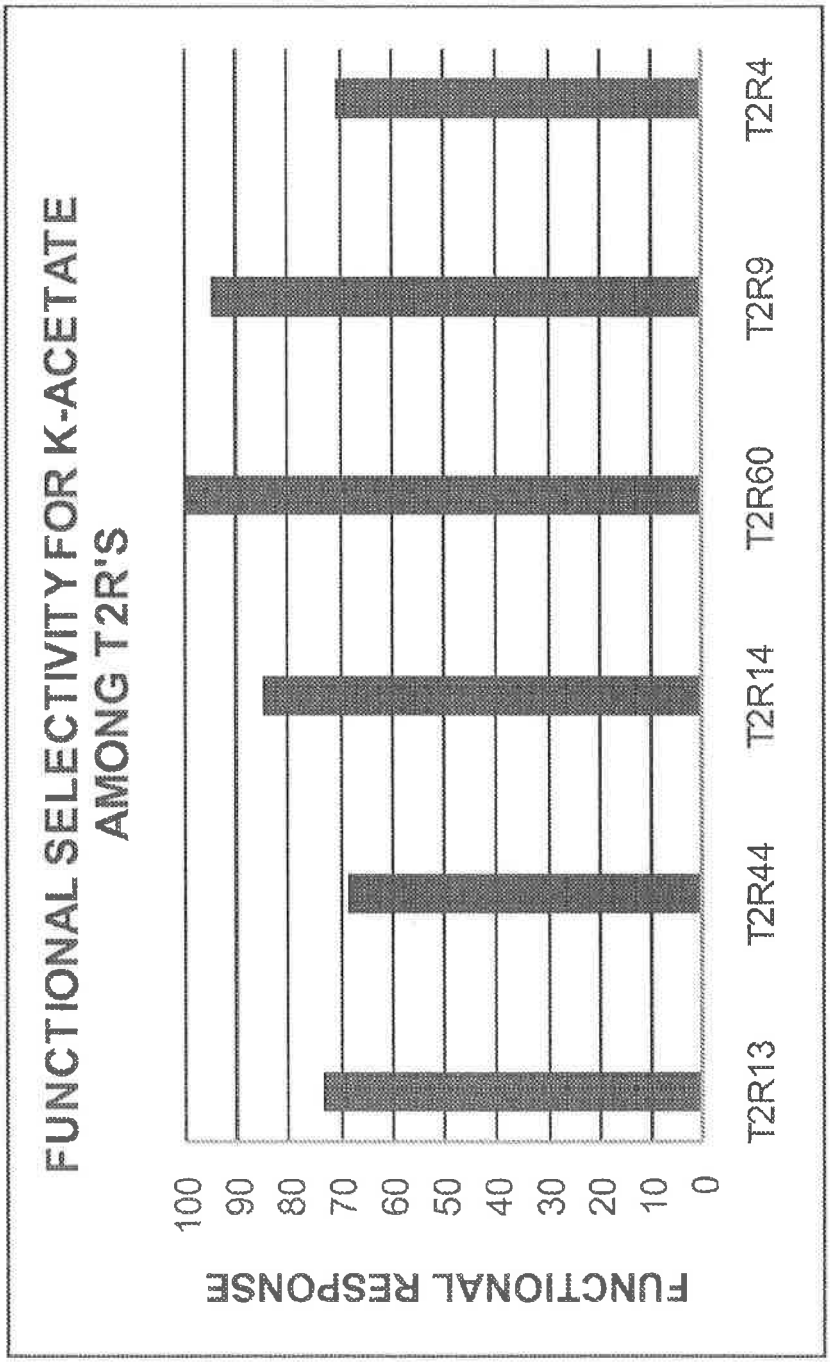

FUNCTIONAL SELECTIVITY FOR K-ACETATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4

Figure 9

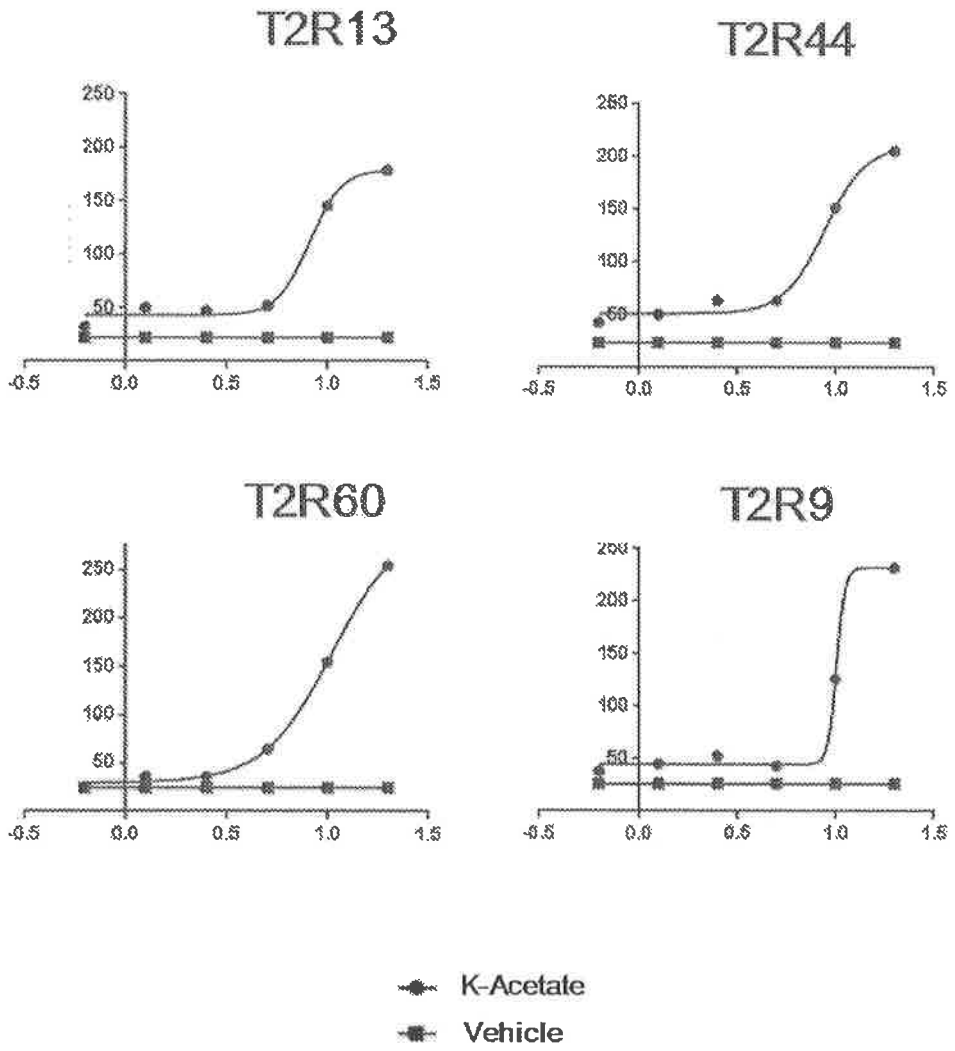

T2R13
T2R44
T2R60
T2R9
250
200
150
100
50
-0.5
0.0
0.5
1.0
1.5
K-Acetate
Vehicle

Figure 9 (Cont.)

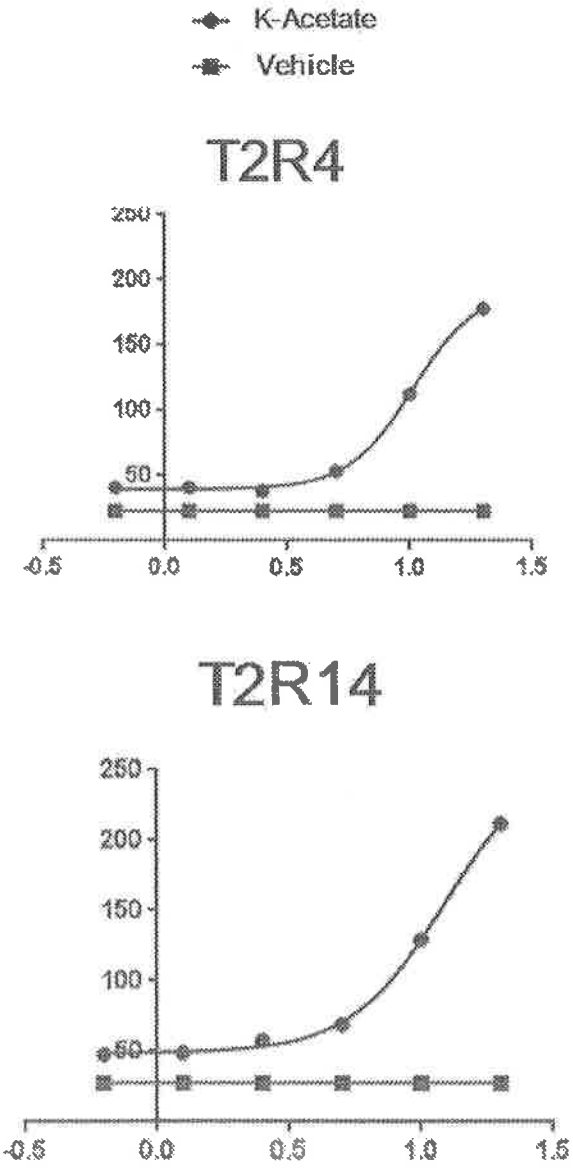


Figure 10

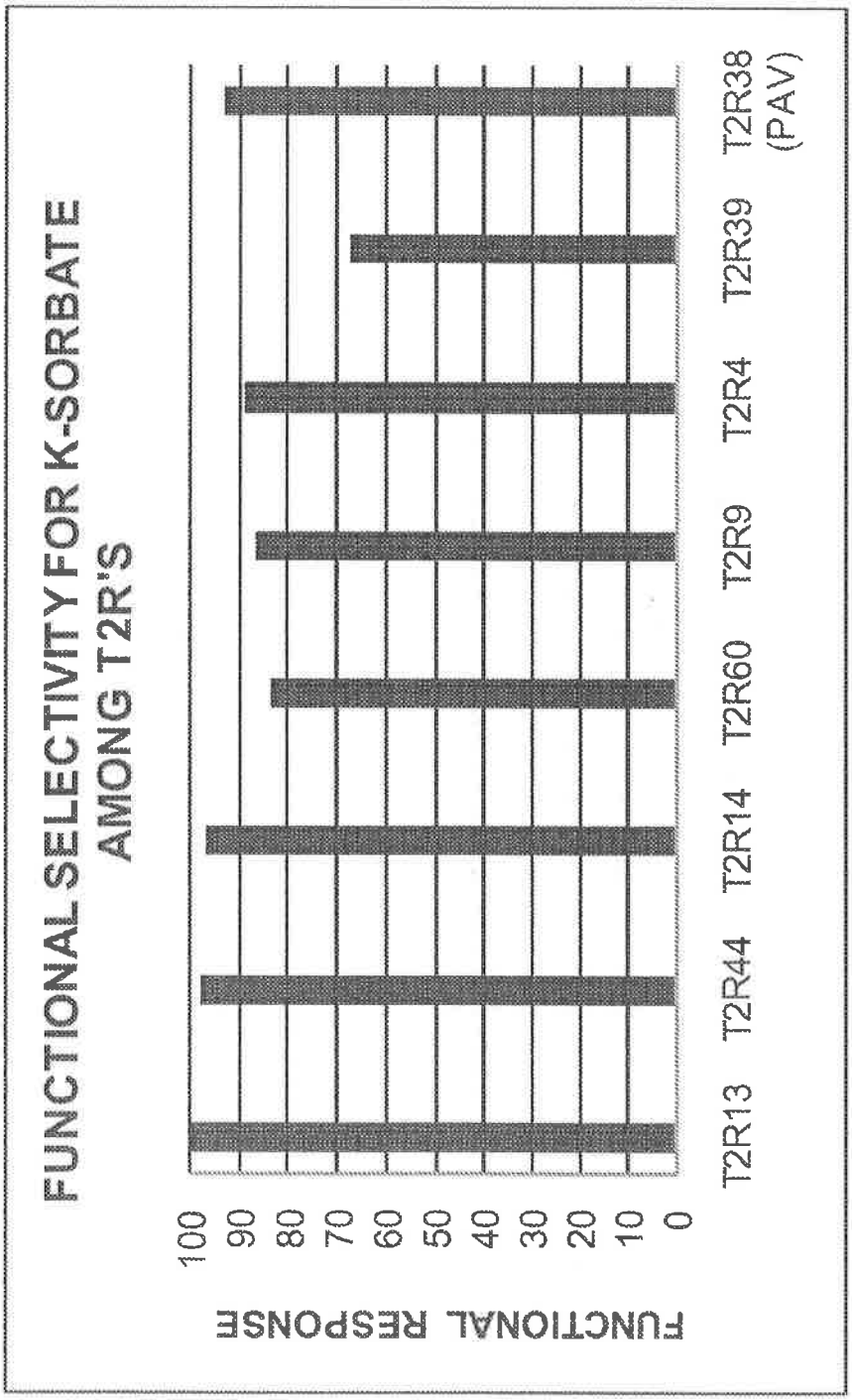

FUNCTIONAL SELECTIVITY FOR K-SORBATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4
T2R39
T2R38 (PAV)

Figure 11

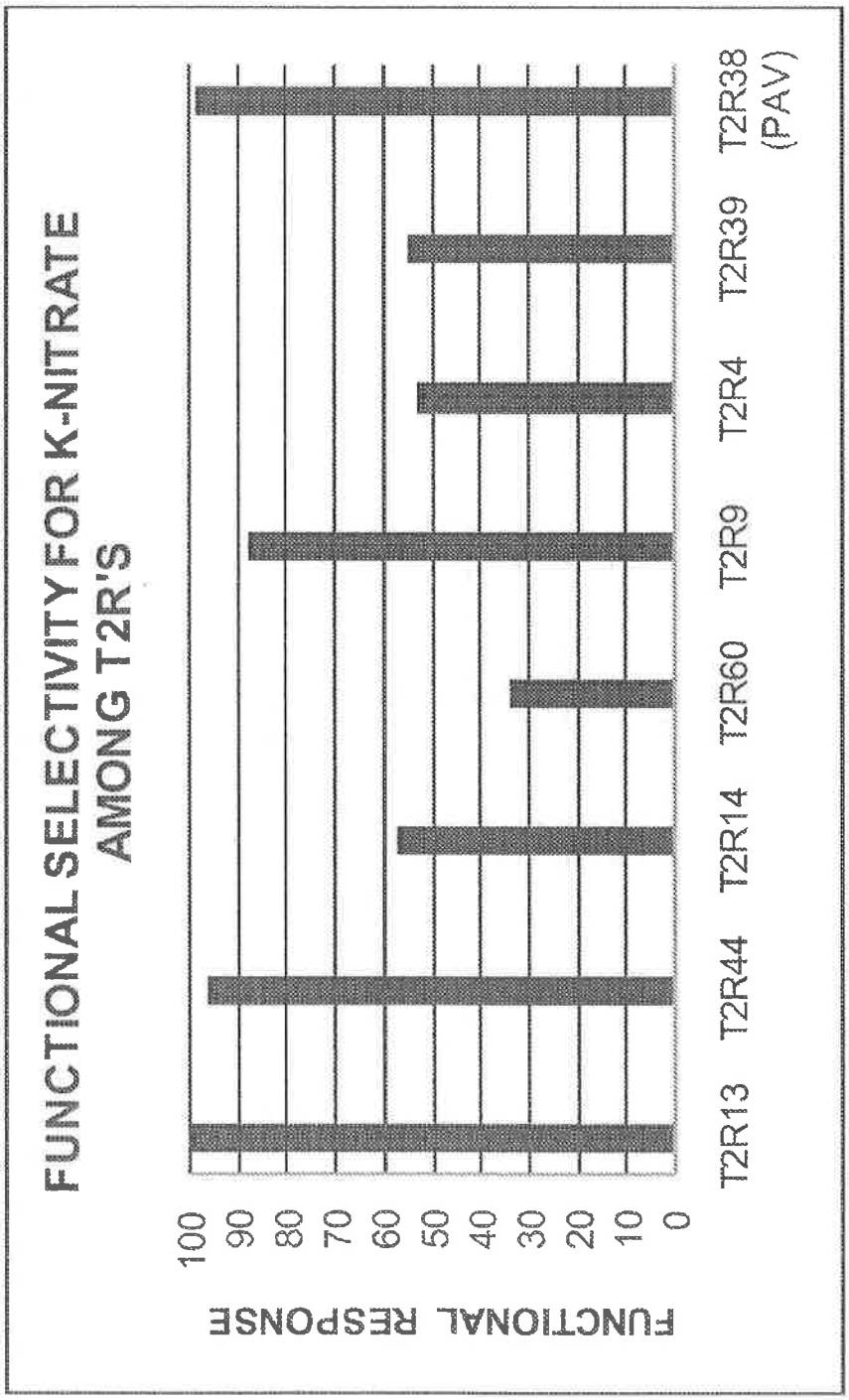

FUNCTIONAL SELECTIVITY FOR K-NITRATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4
T2R39
T2R38 (PAV)

Figure 12

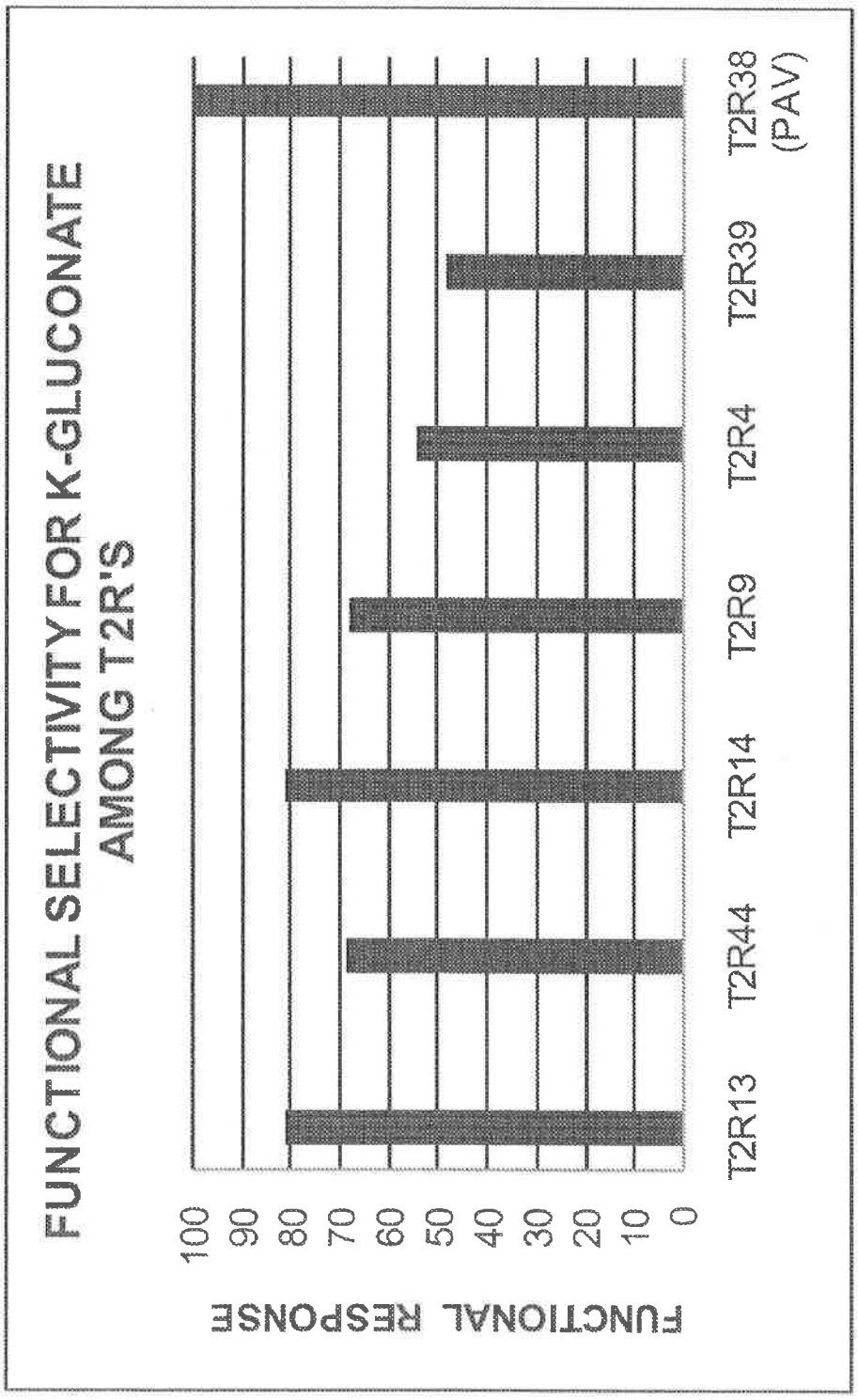

FUNCTIONAL SELECTIVITY FOR K-GLUCONATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R9
T2R4
T2R39
T2R38 (PAV)

Figure 13

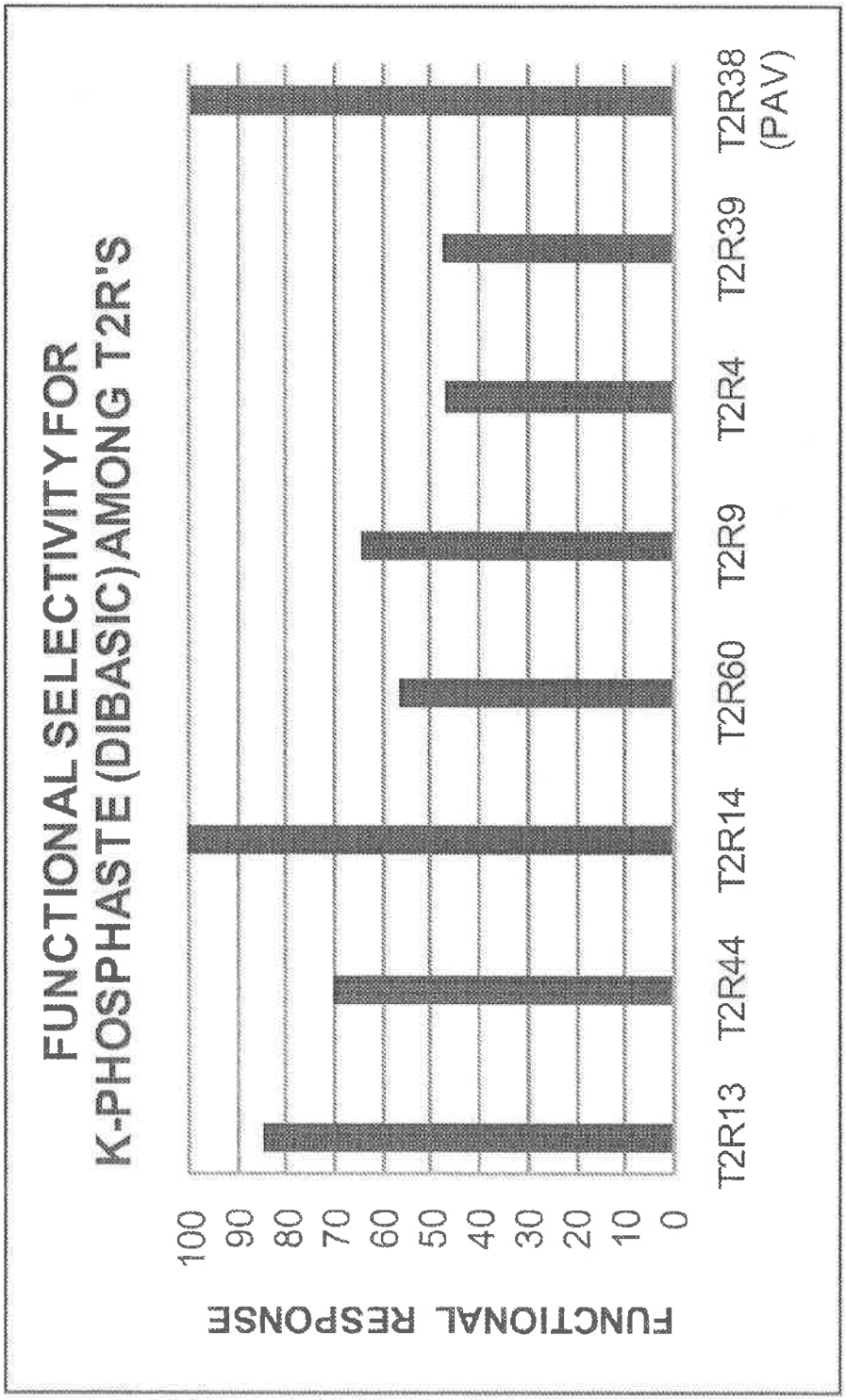
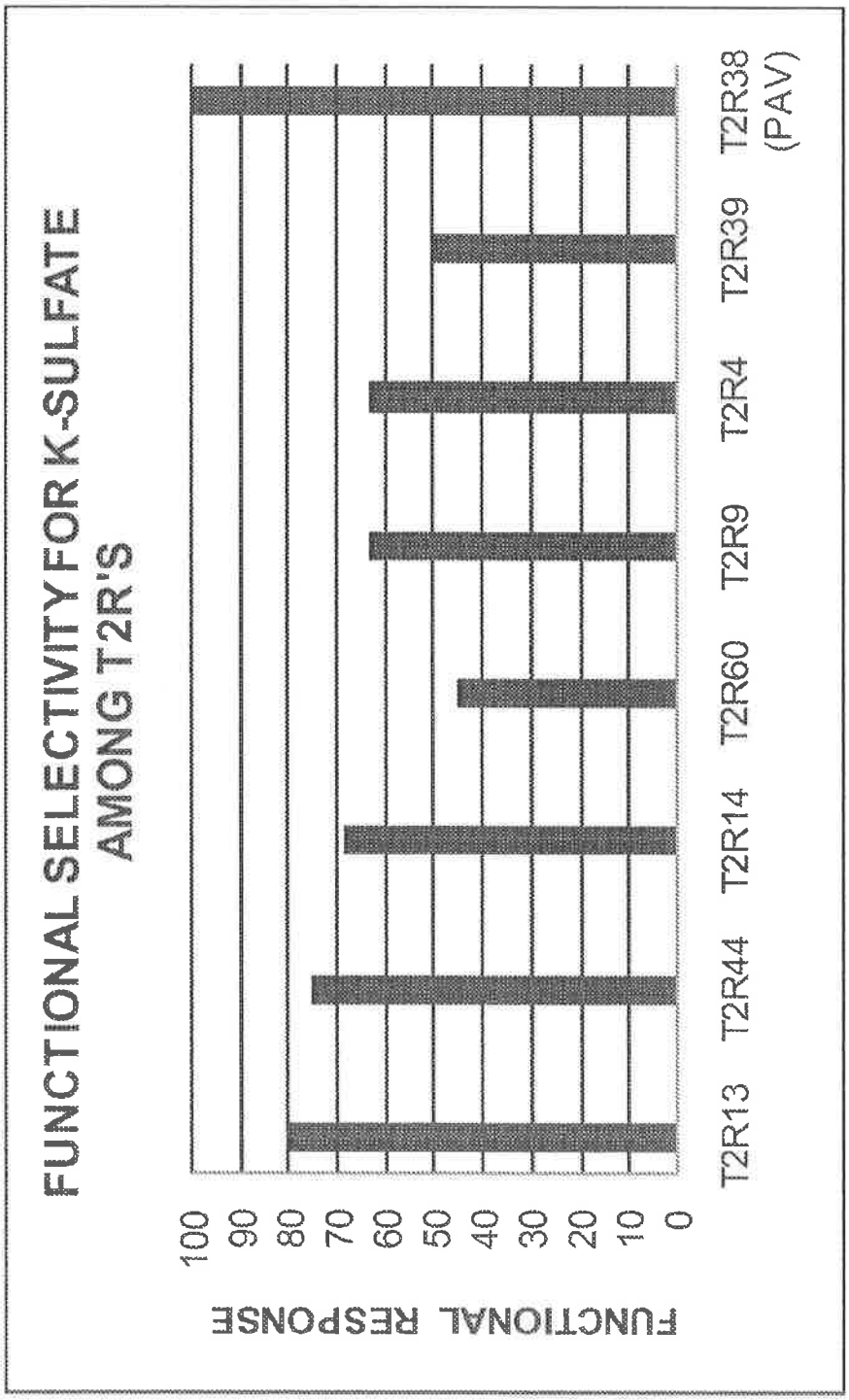

FUNCTIONAL SELECTIVITY FOR
K-PHOSPHASTE (DIBASIC) AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4
T2R39
T2R38
(PAV)

Figure 14


FUNCTIONAL SELECTIVITY FOR K-SULFATE AMONG T2R'S
FUNCTIONAL RESPONSE
100
90
80
70
60
50
40
30
20
10
0
T2R13
T2R44
T2R14
T2R60
T2R9
T2R4
T2R39
T2R38 (PAV)