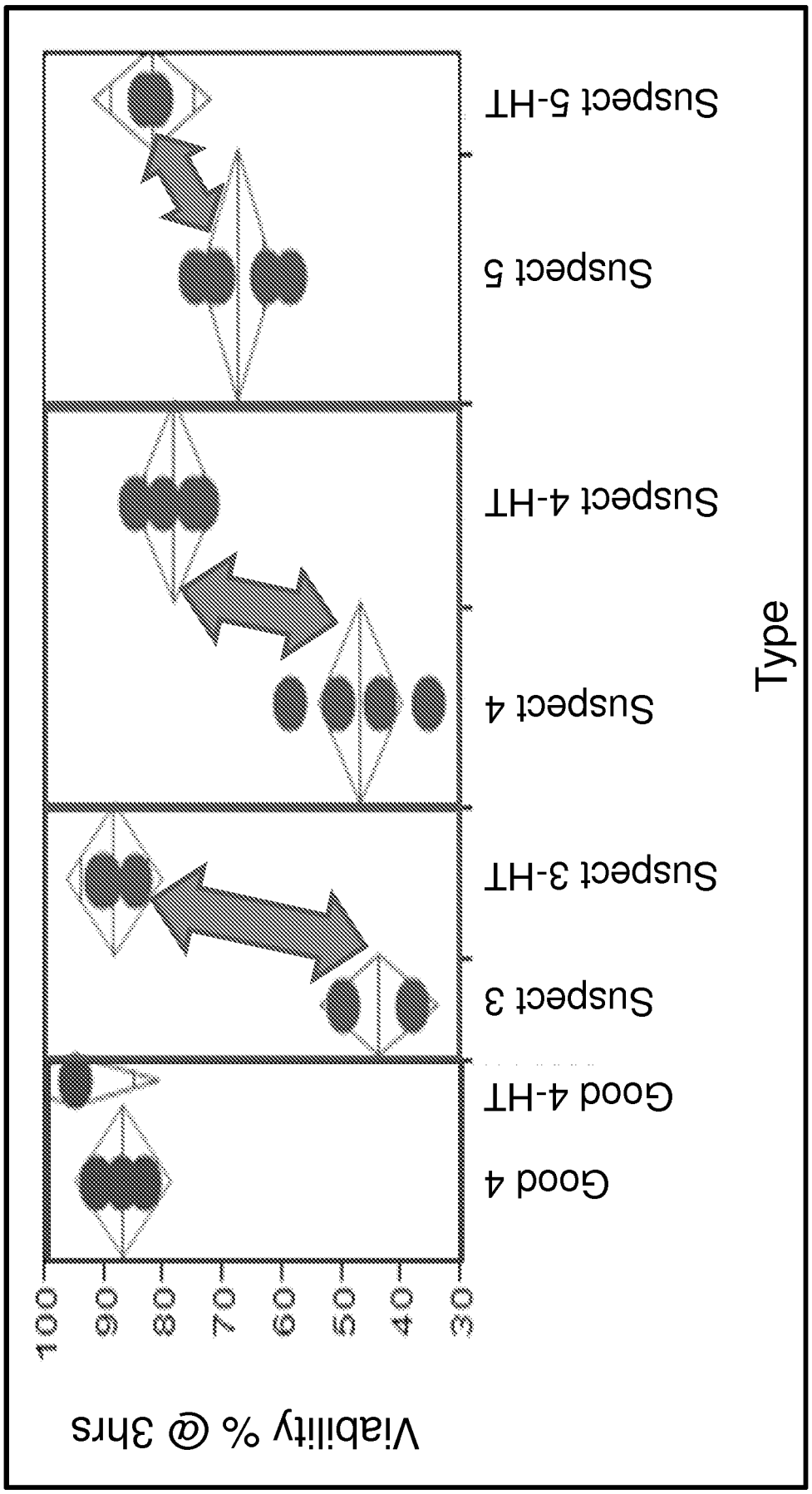

Viability % @ 3hrs
100
90
80
70
60
50
40
30
Good 4
Good 4-HT
Suspect 3
Suspect 3-HT
Suspect 4
Suspect 4-HT
Suspect 5
Suspect 5-HT
Type

FIG. 1

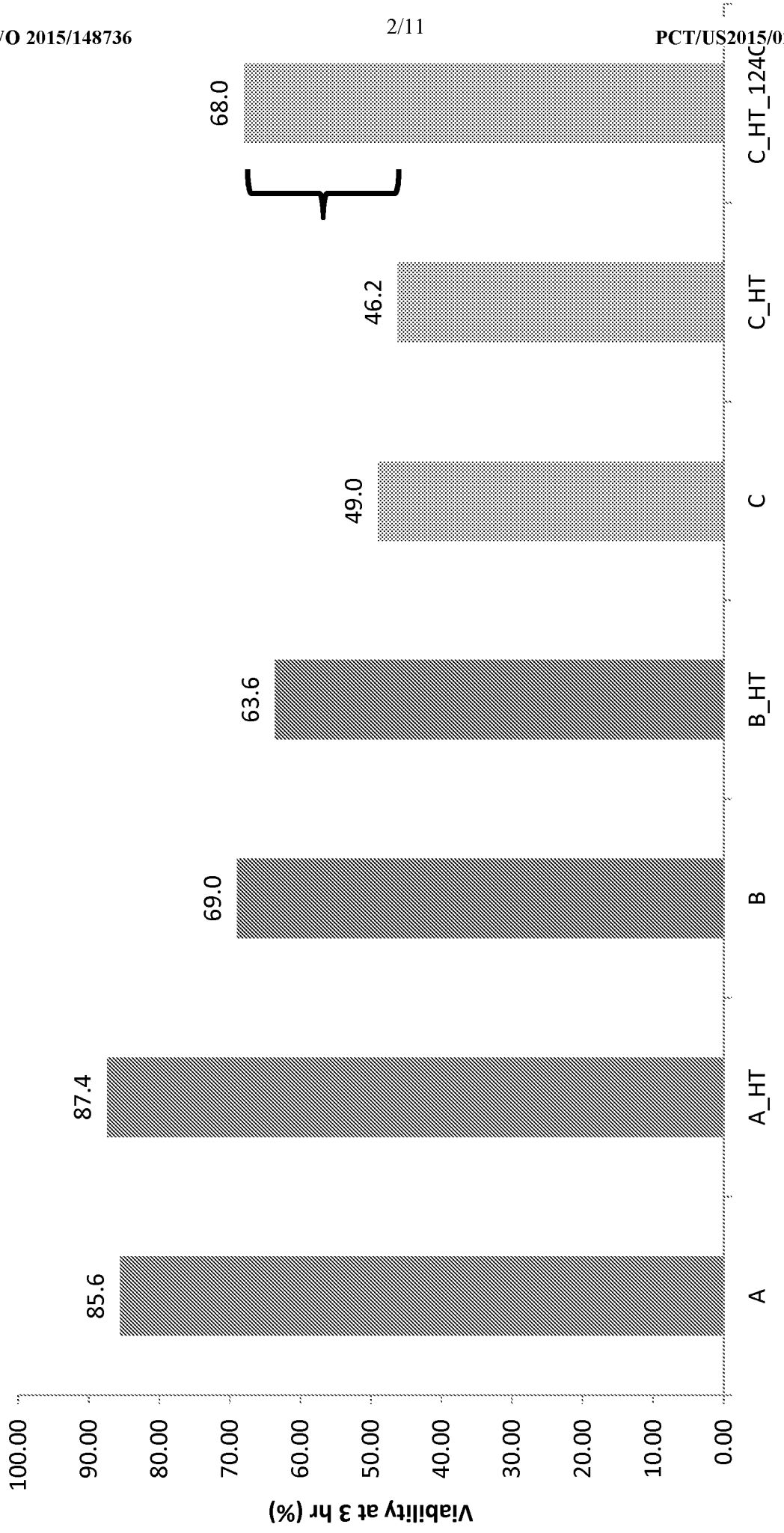

Viability at 3 hr (%)
100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
85.6
87.4
69.0
63.6
49.0
46.2
68.0
A
A_HT
B
B_HT
C
C_HT
C_HT_124C

FIG. 2

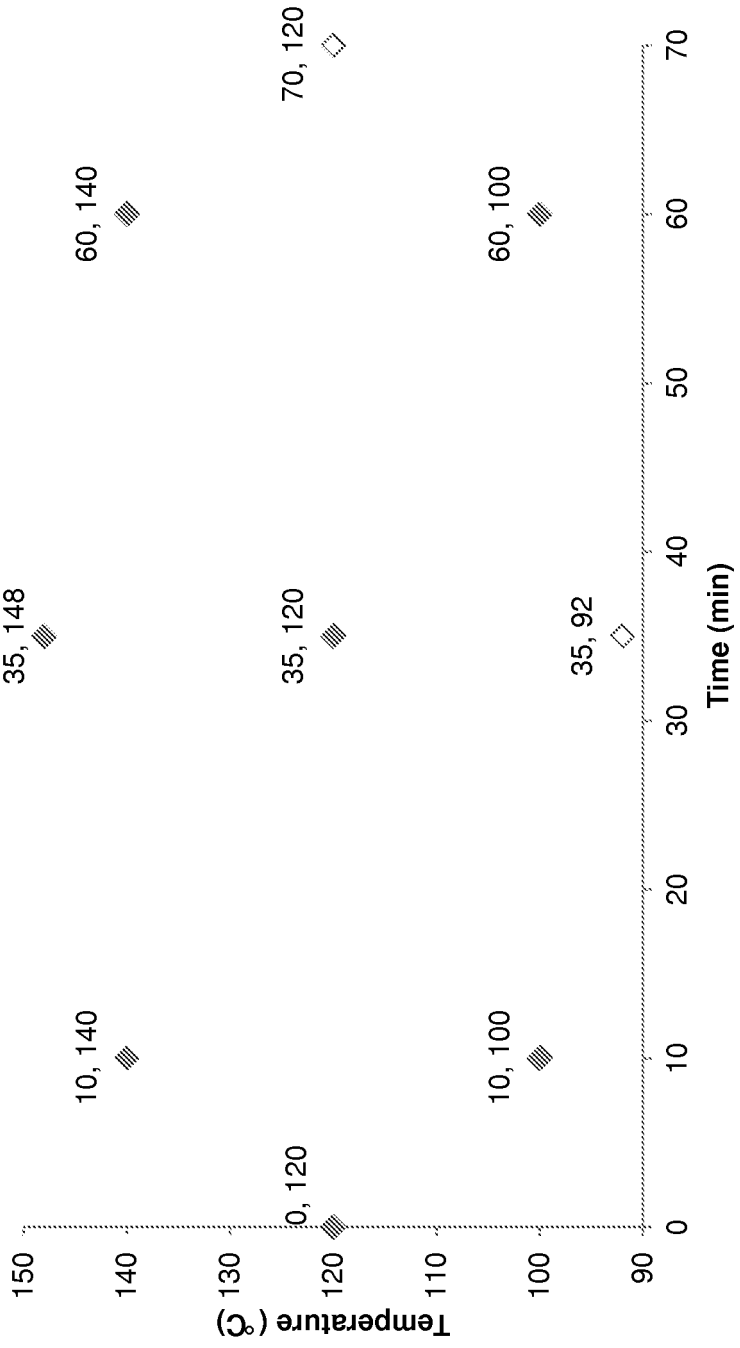

Temperature (°C)
150
140
130
120
110
100
90
0
10
20
30
40
50
60
70
Time (min)
35, 148
60, 140
70, 120
35, 120
60, 100
35, 92
10, 140
10, 100
0, 120

FIG. 3

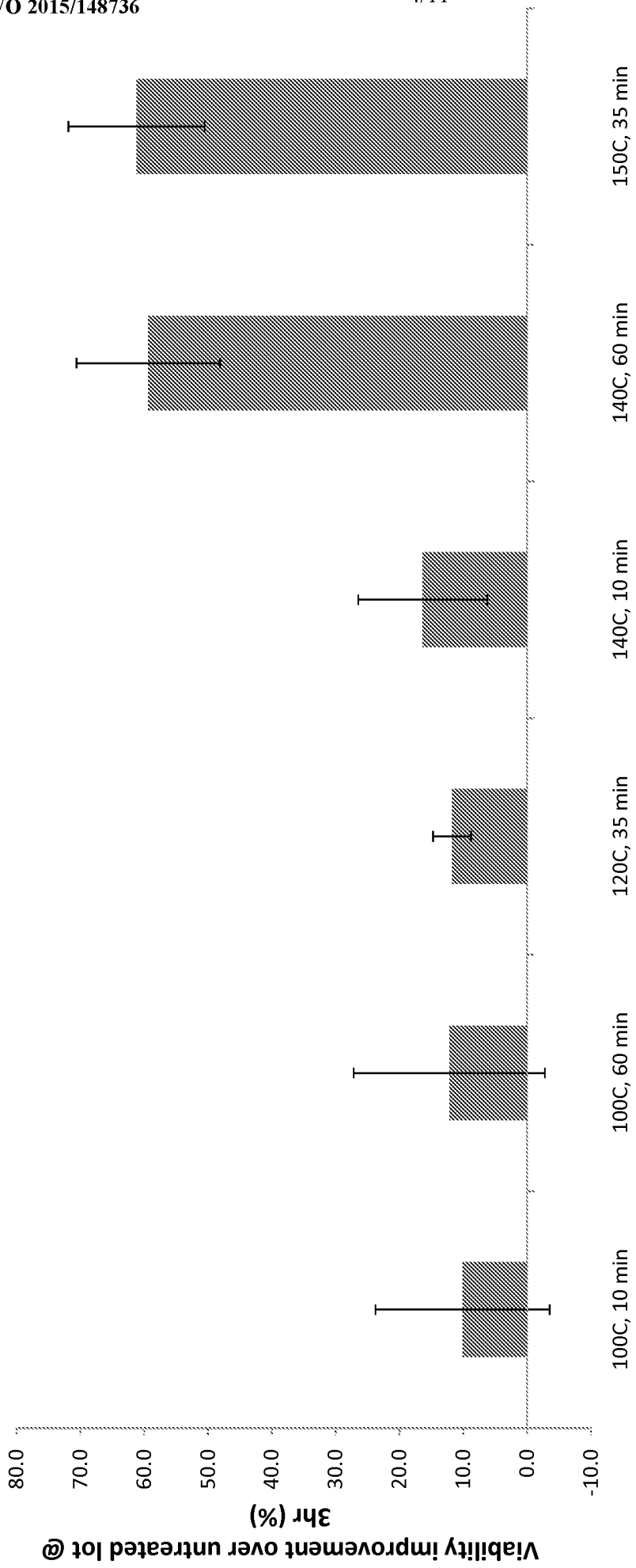

Viability improvement over untreated lot @ 3hr (%)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
100C, 10 min
100C, 60 min
120C, 35 min
140C, 10 min
140C, 60 min
150C, 35 min

FIG. 4

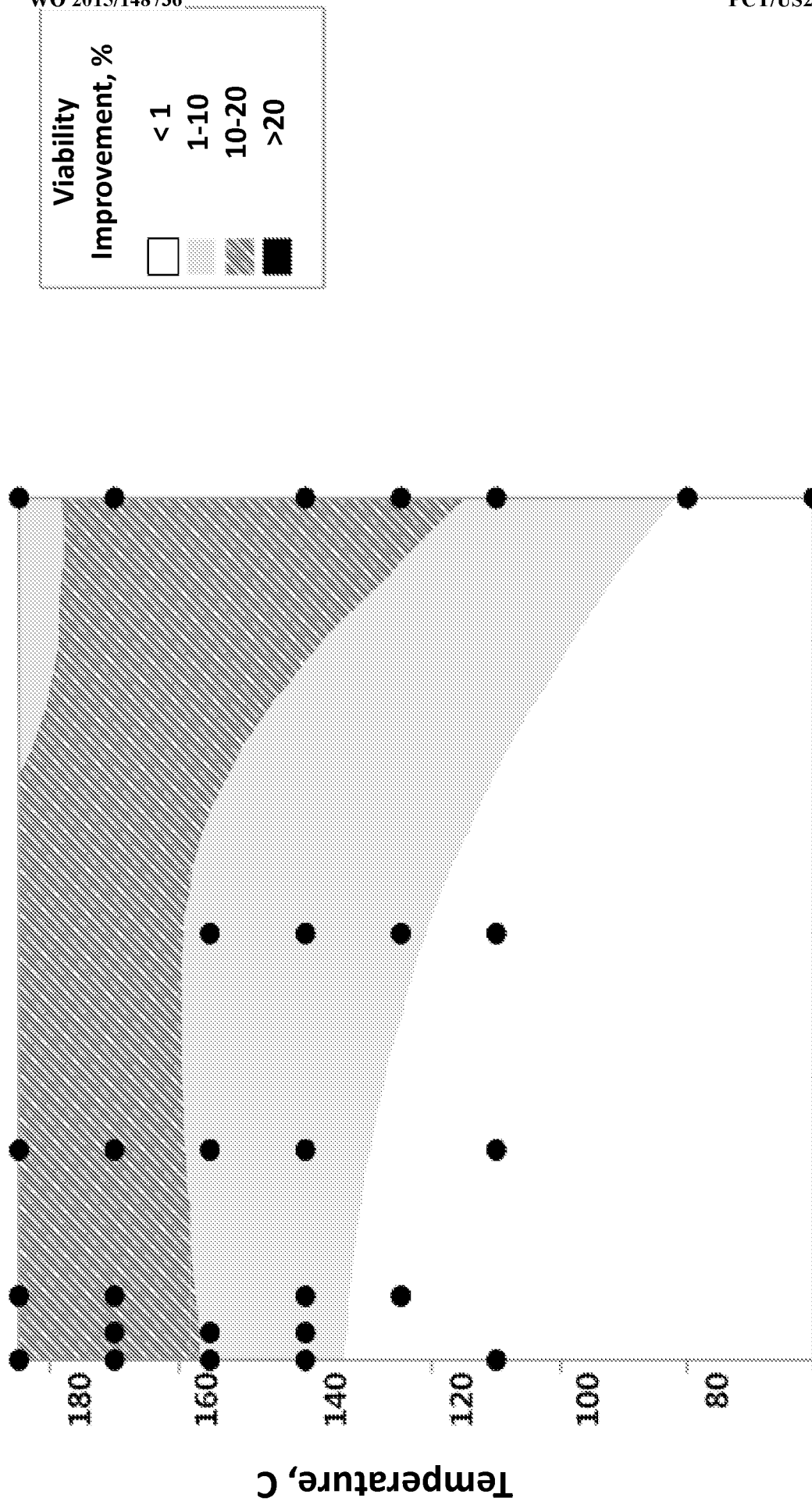

Viability Improvement, %
< 1
1-10
10-20
>20
Temperature, C
180
160
140
120
100
80
60
Time, min
20
40
60
80
100
120

FIG. 5

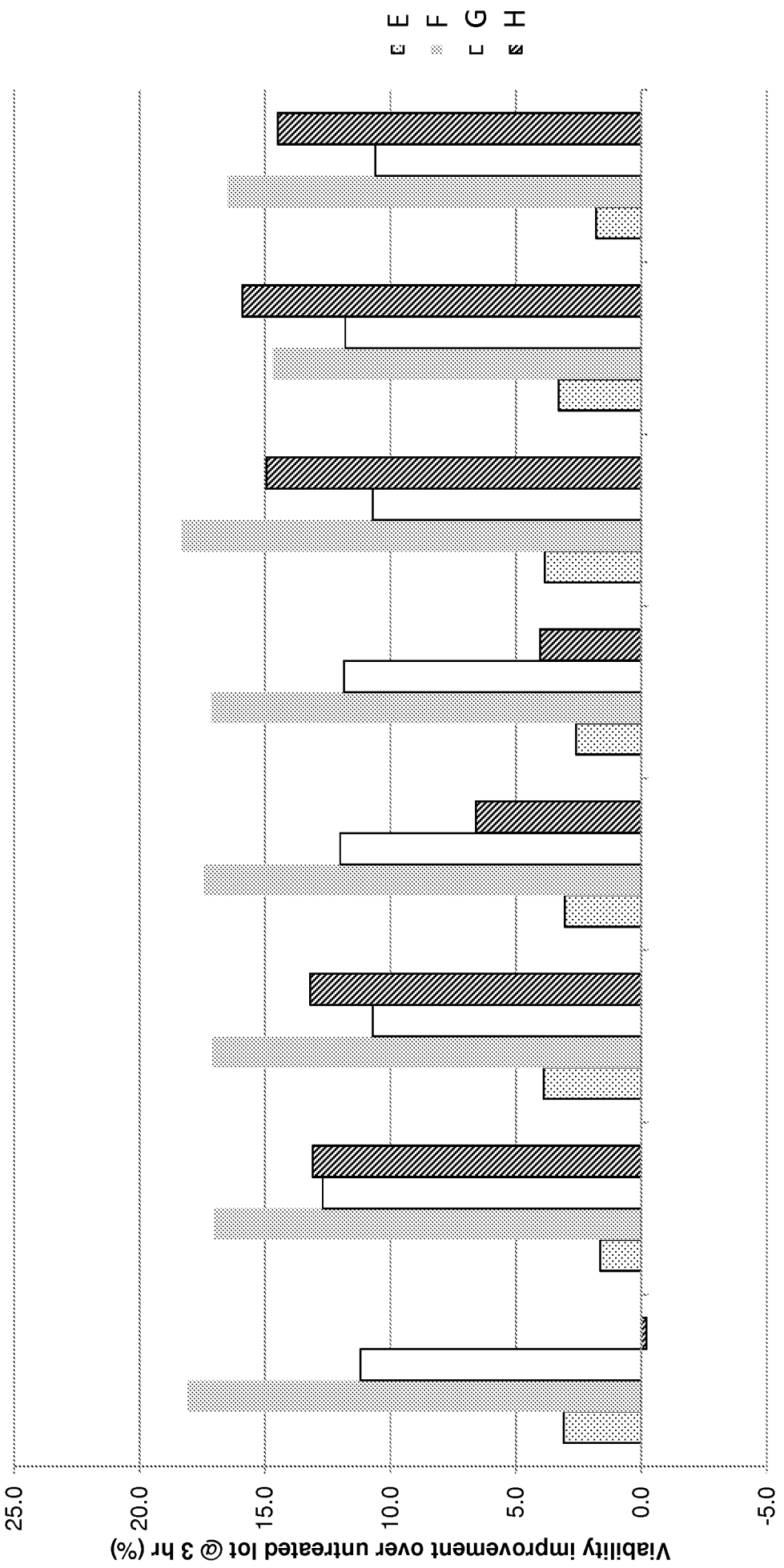

Viability improvement over untreated lot @ 3 hr (%)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
E
F
G
H
140C, 1 min
140C, 30 min #1
140C, 30 min #2
155C, 1 min #1
155C, 1 min #2
155C, 30 min
170C, 1 min
170C, 30 min

FIG. 6

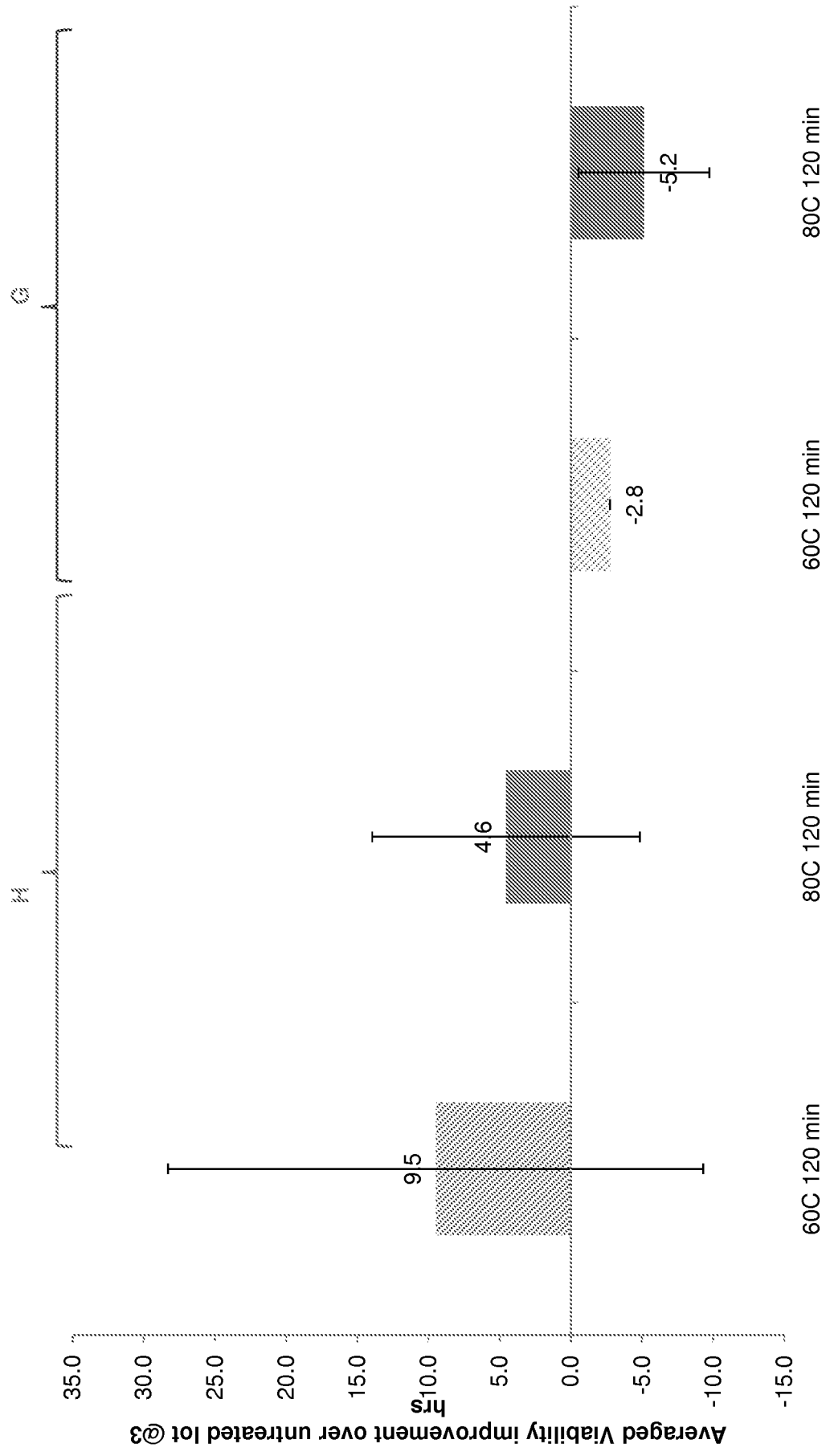

Averaged Viability improvement over untreated lot @3 hrs
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
9.5
4.6
-2.8
-5.2
60C 120 min
80C 120 min
60C 120 min
80C 120 min
H
C

FIG. 7

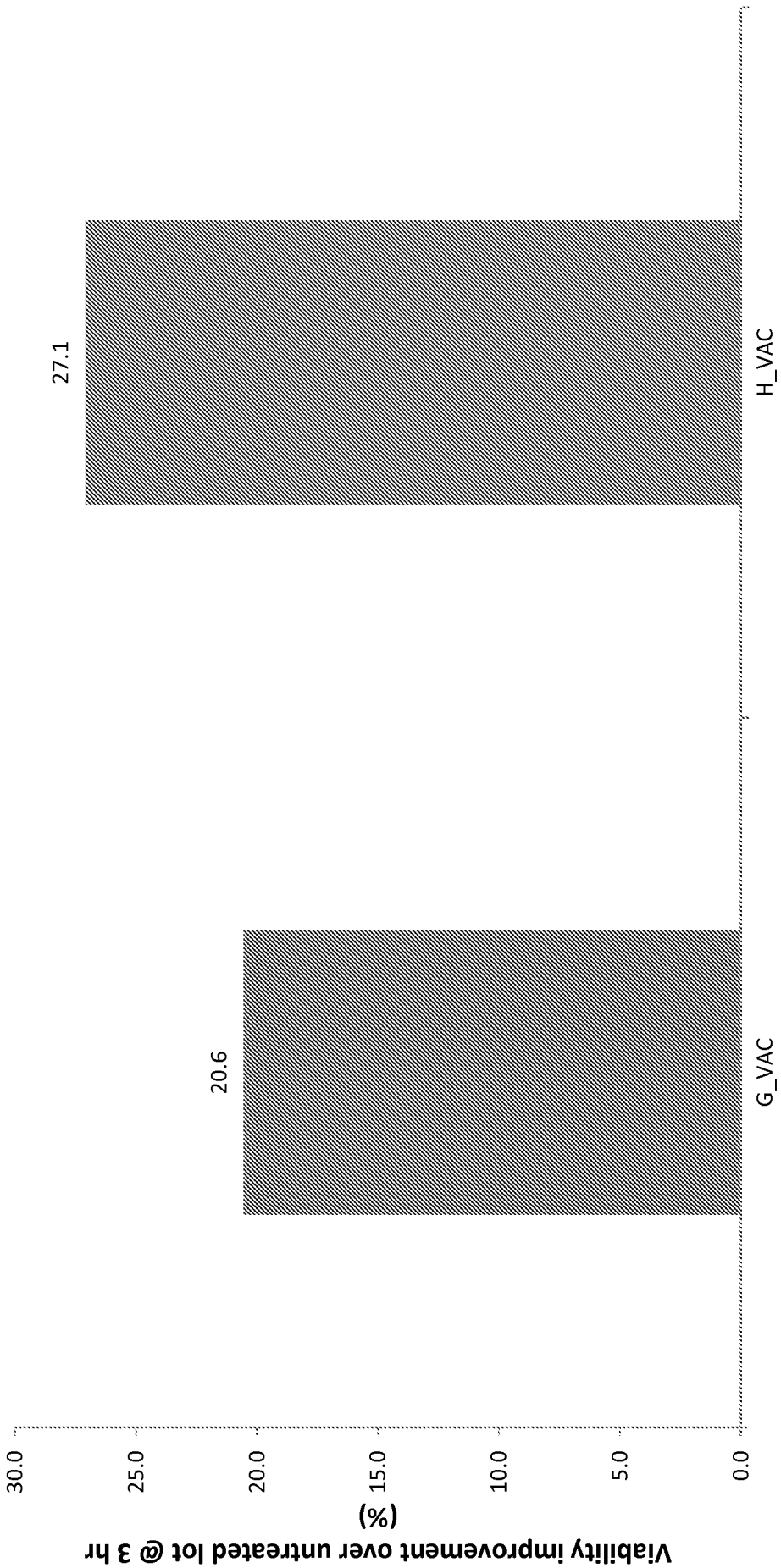

Viability improvement over untreated Iot @ 3 hr
(%)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
20.6
27.1
G_VAC
H_VAC

FIG. 8

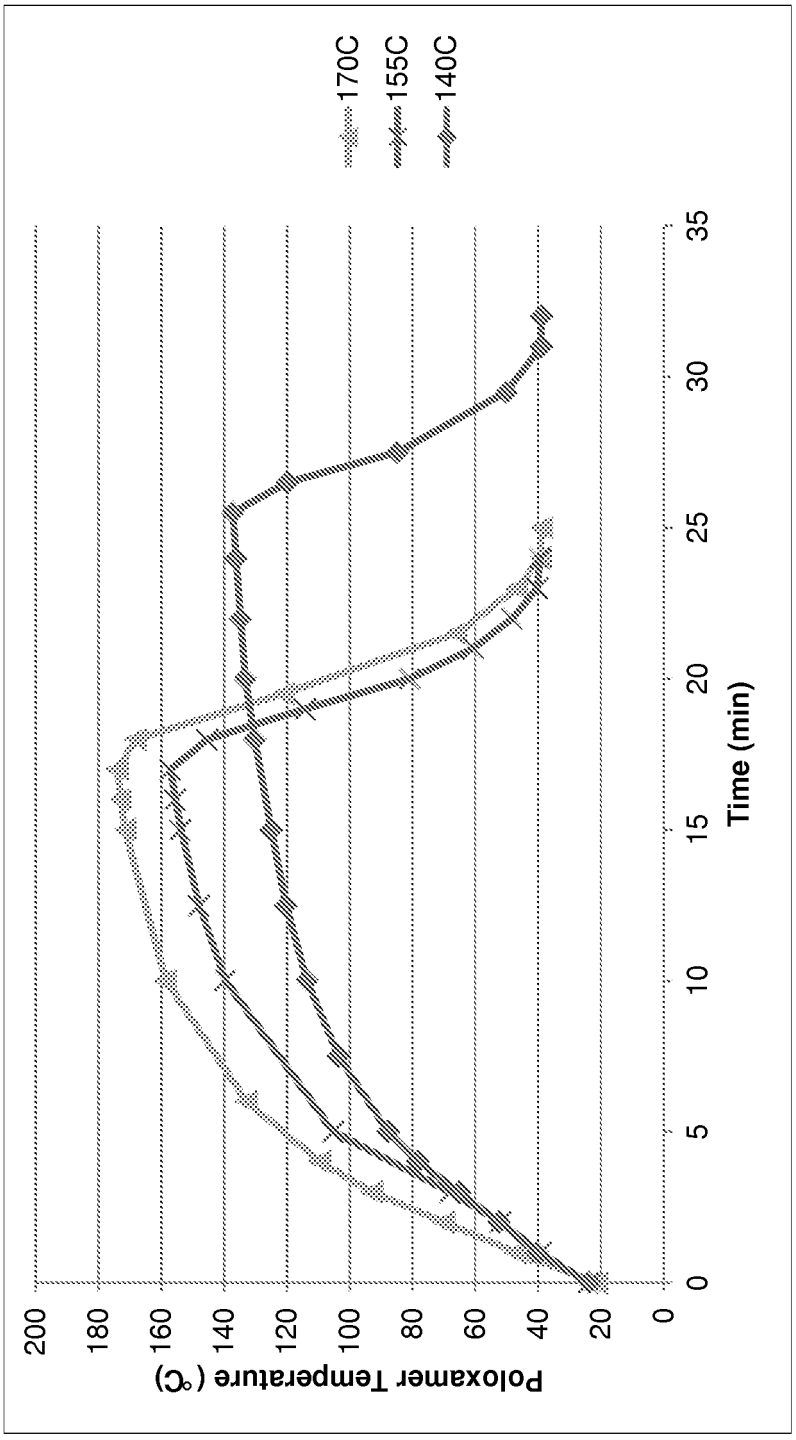

170C
155C
140C
Poloxamer Temperature (°C)
Time (min)
0
20
40
60
80
100
120
140
160
180
200
0
5
10
15
20
25
30
35

FIG. 9

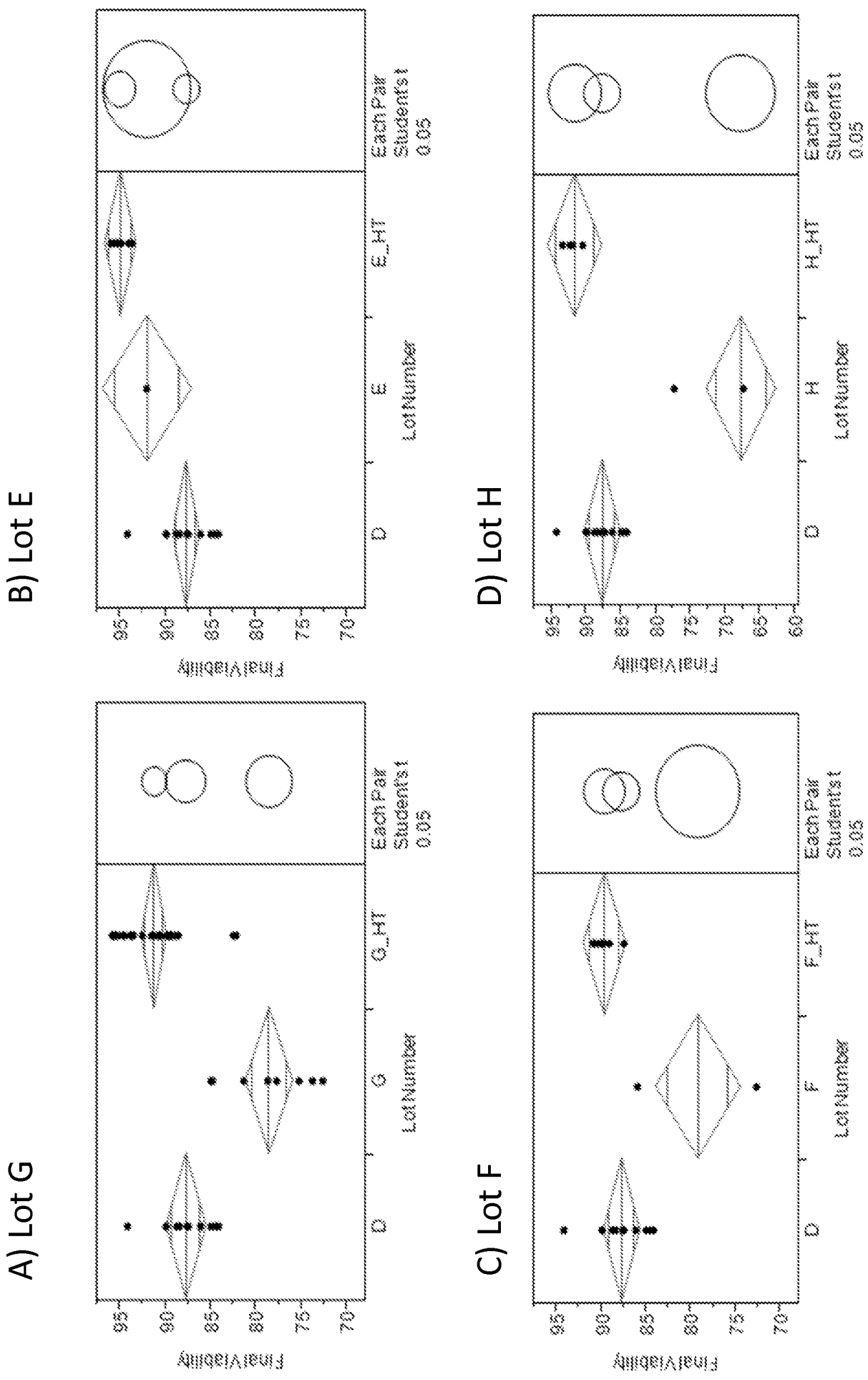

A) Lot G
B) Lot E
C) Lot F
D) Lot H
Final Viability
Lot Number
Each Pair
Student's t
0.05

FIG. 10

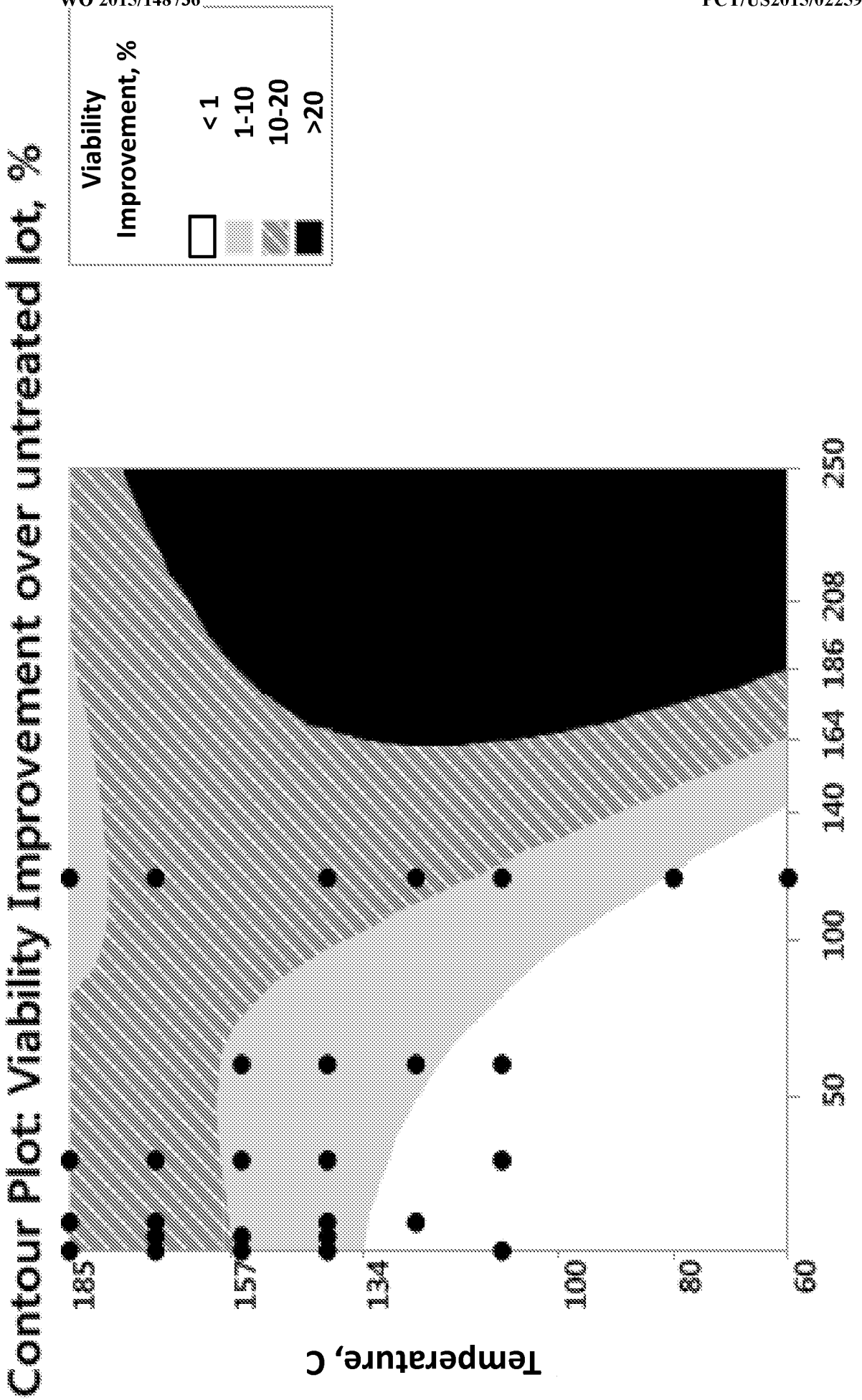

Contour Plot: Viability Improvement over untreated lot, %
Viability Improvement, %
< 1
1-10
10-20
>20
Temperature, C
185
157
134
100
80
60
Time, min
50
100
140
164
186
208
250

FIG. 11