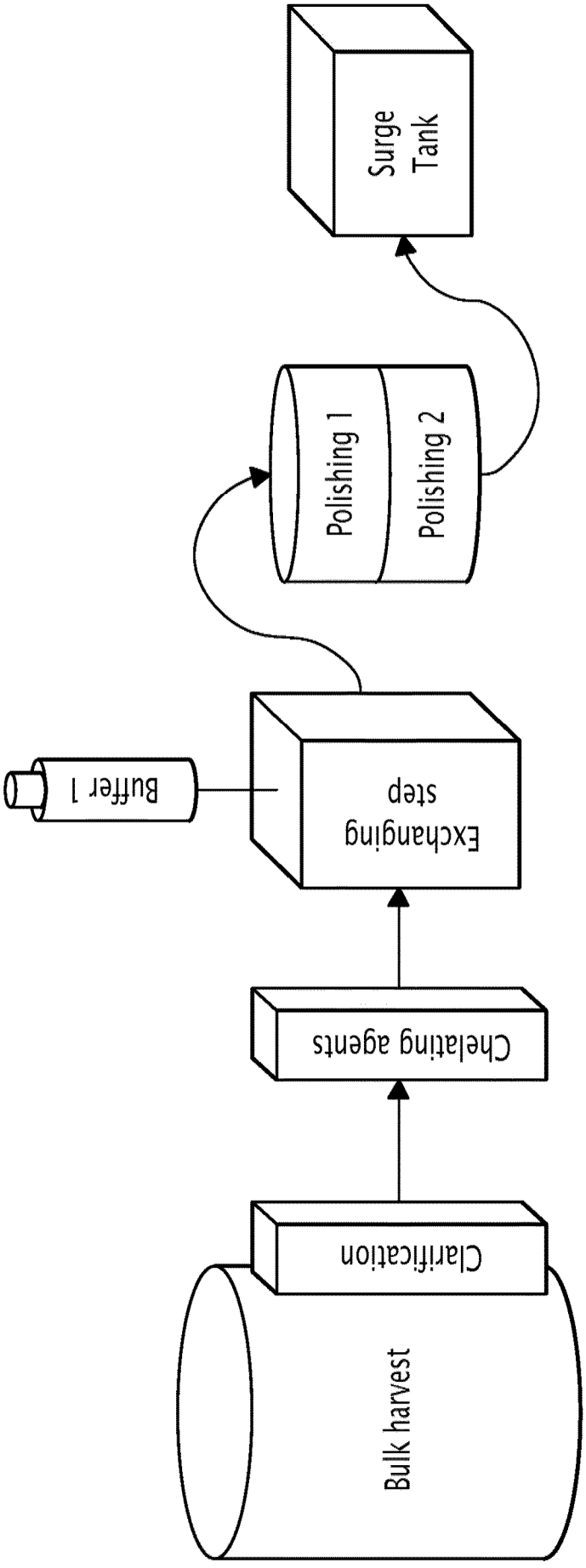
Surge Tank
Polishing 1
Polishing 2
Buffer 1
Exchanging step
Chelating agents
Clarification
Bulk harvest

FIG.1

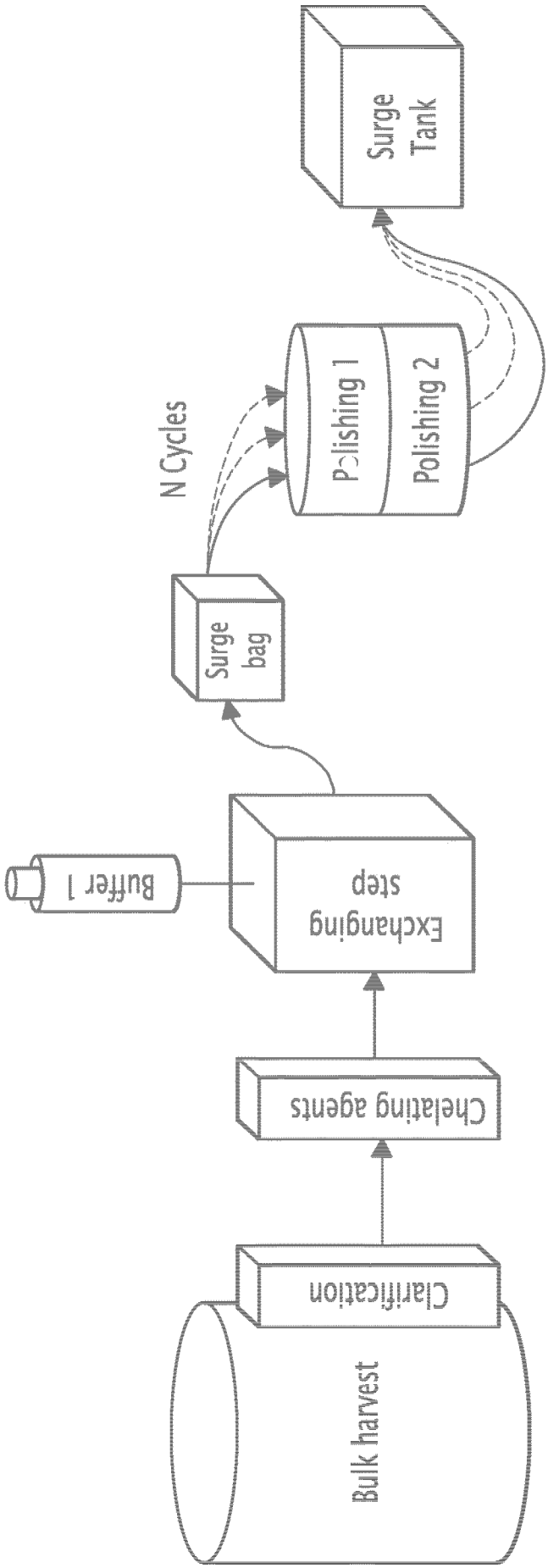
Bulk harvest
Clarification
Chelating agents
Exchanging step
Buffer 1
Surge bag
N Cycles
Polishing 1
Polishing 2
Surge Tank

FIG.2

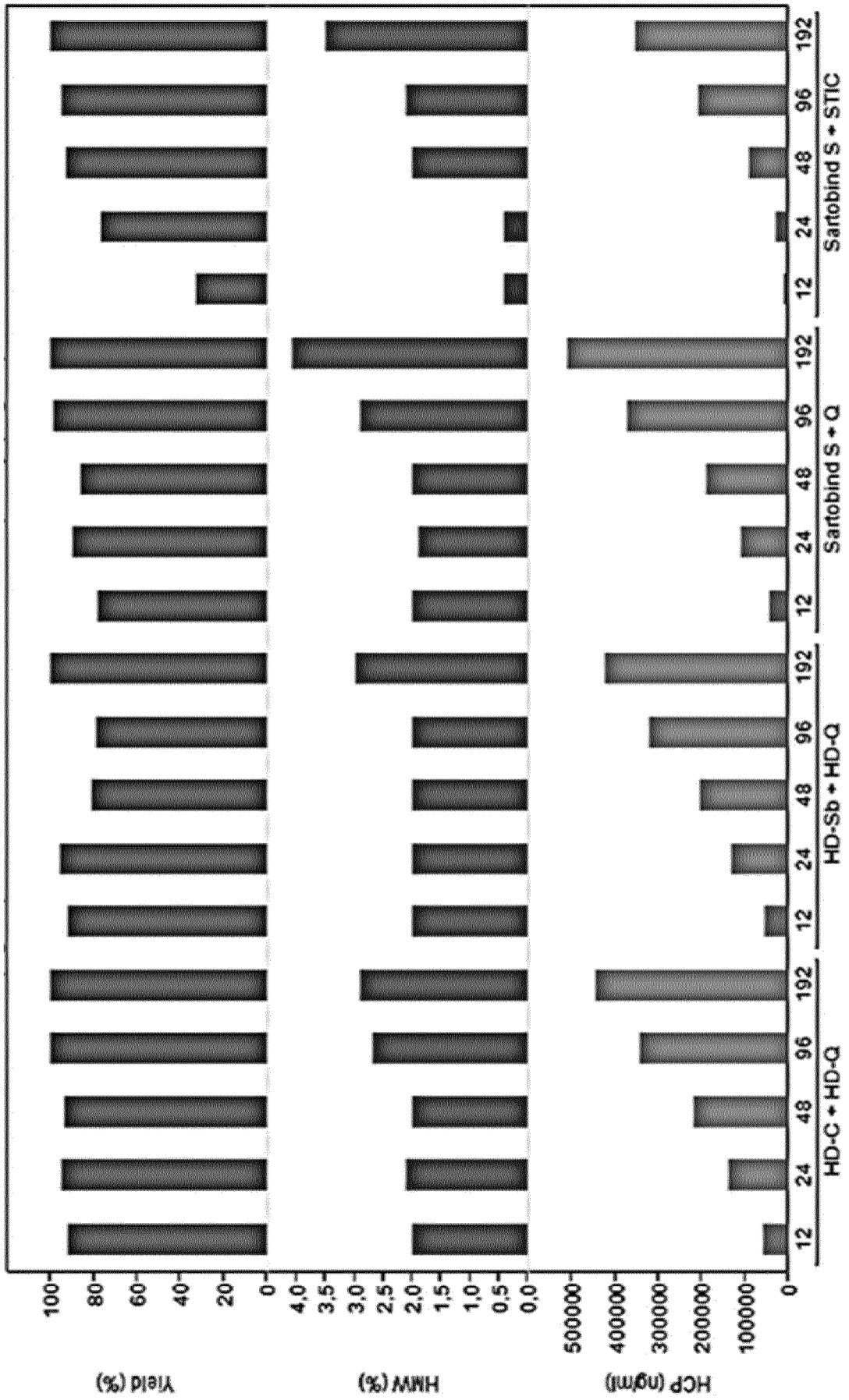
Yield (%)
HMW (%)
HCP (ng/ml)
100
80
60
40
20
0
4,0
3,5
3,0
2,5
2,0
1,5
1,0
0,5
0,0
500000
400000
300000
200000
100000
0
12
24
48
96
192
HD-C ↔ HD-Q
HD-Sb ↔ HD-Q
Sartobind S ↔ Q
Sartobind S ↔ STIC
Combination of membranes / Capacity (mg/ml)

FIG.3

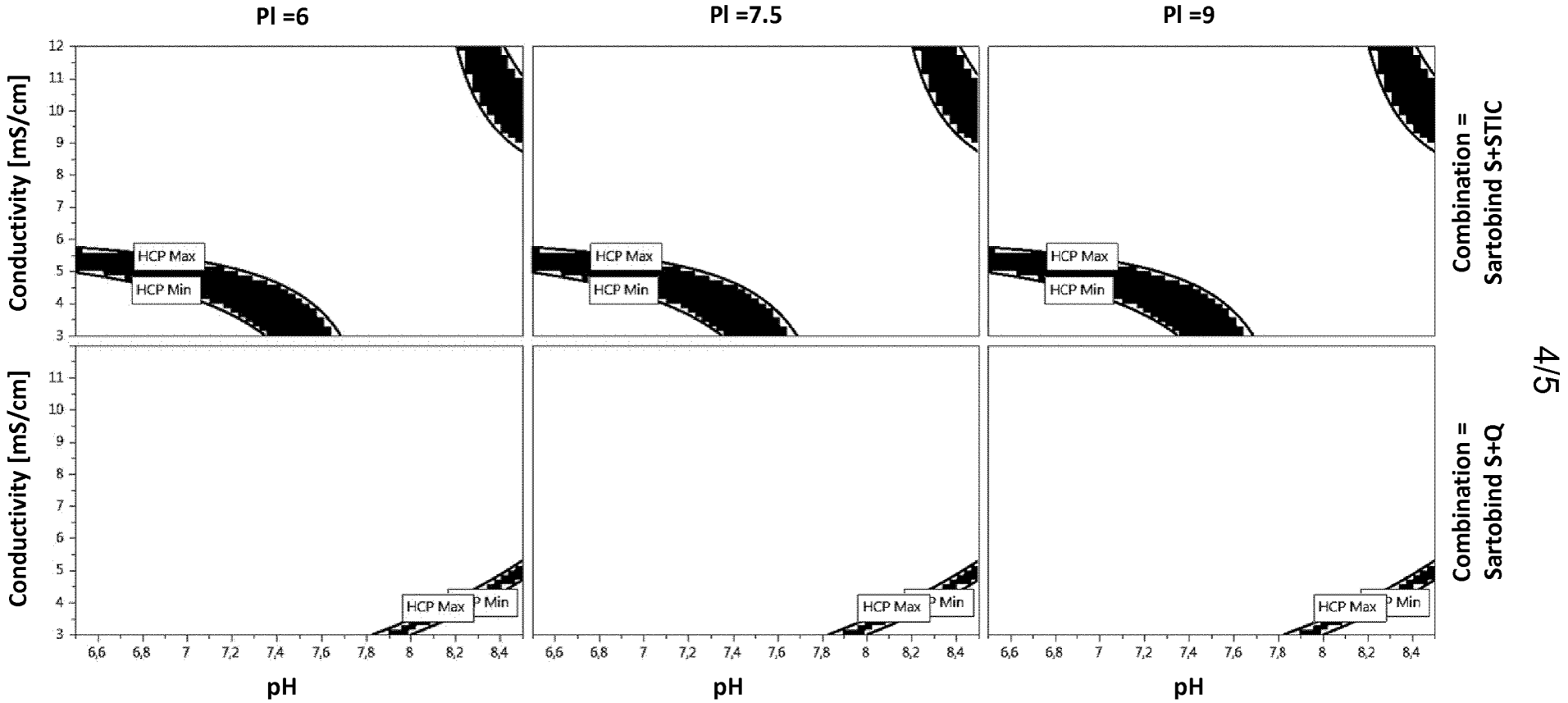
PI =6
PI =7.5
PI =9
Conductivity [mS/cm]
HCP Max
HCP Min
Combination = Sartobind S+STIC
Combination = Sartobind S+Q
pH
Sweet spot = HCP [ng/ml] (50-500)

FIG.4

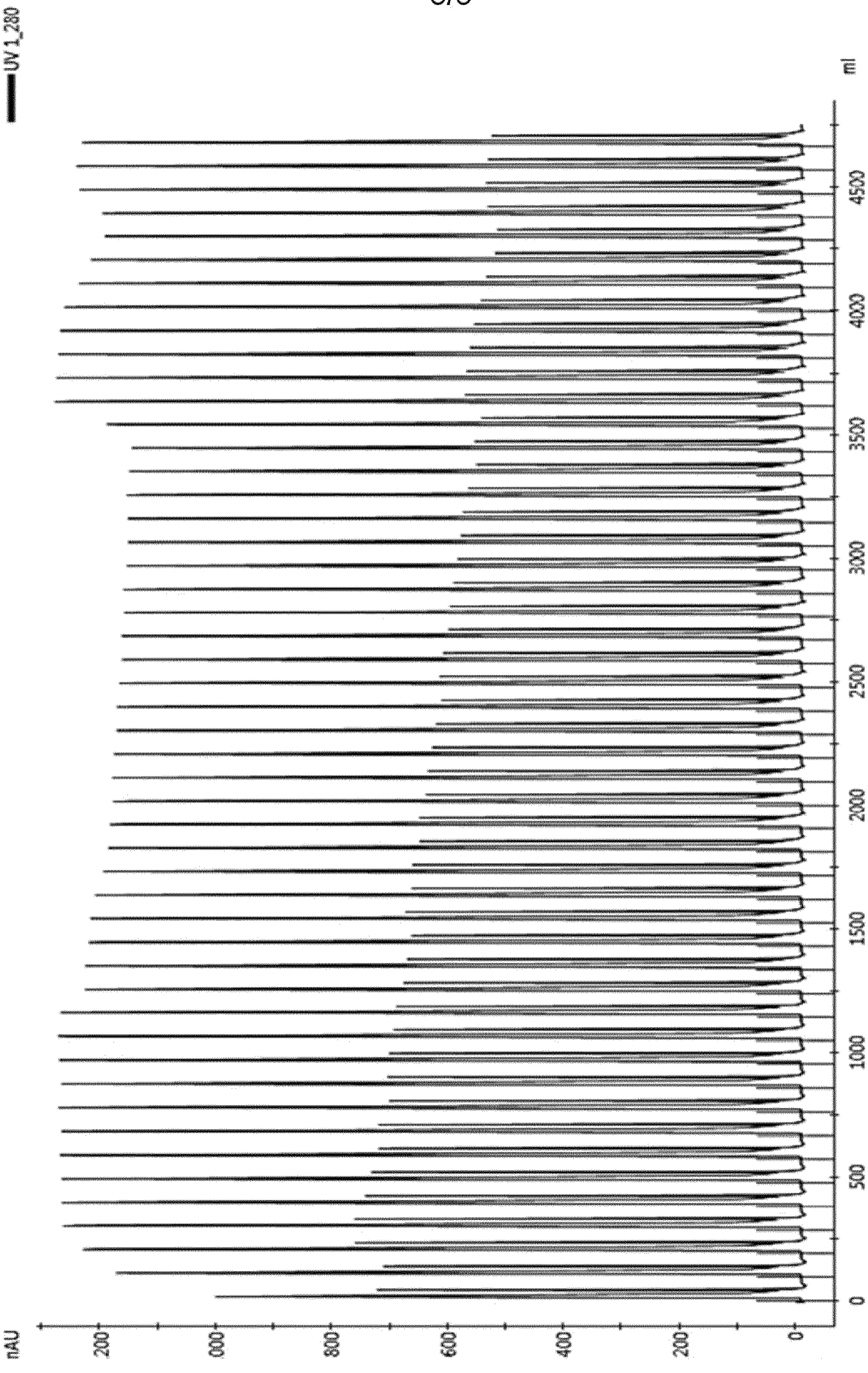
UV 1_280
nAU
200
000
800
600
400
200
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
ml

FIG.5