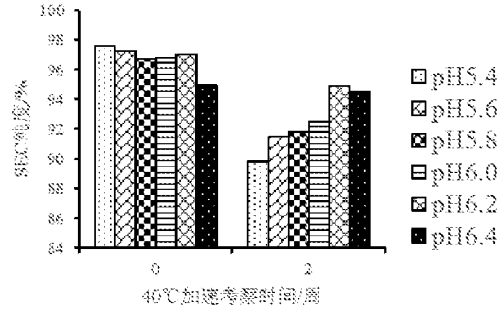
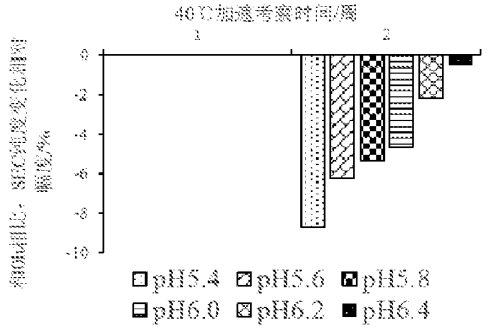



图 1

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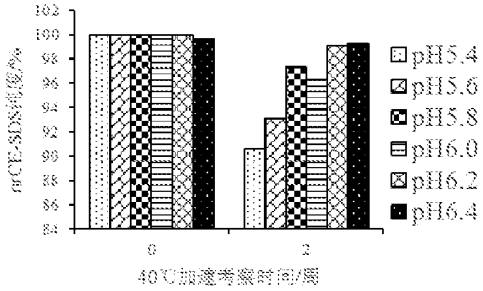



图 3

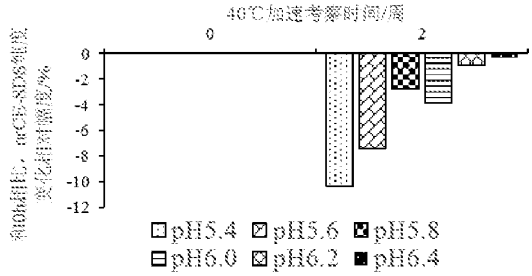



图 4

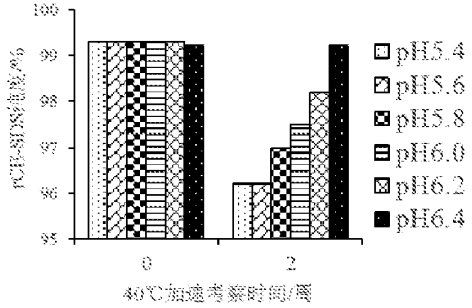



图 5

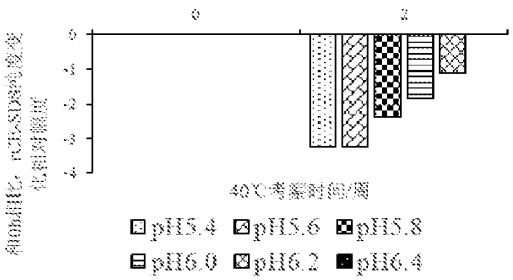



图 6

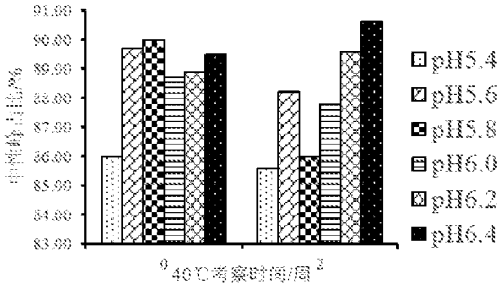



图 7

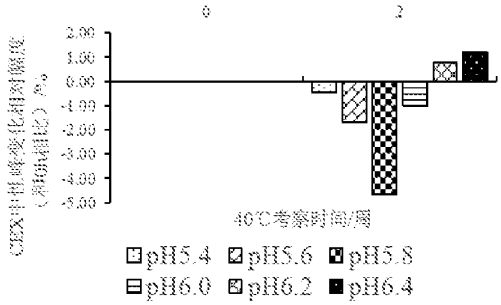



图 8

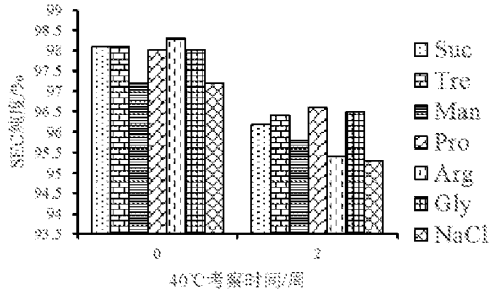



图 9

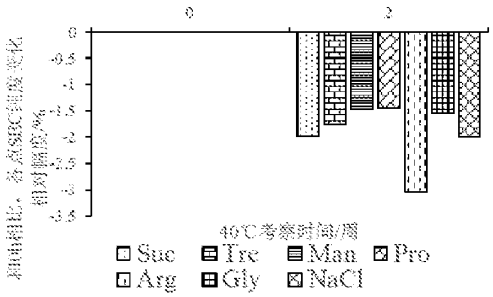



图 10

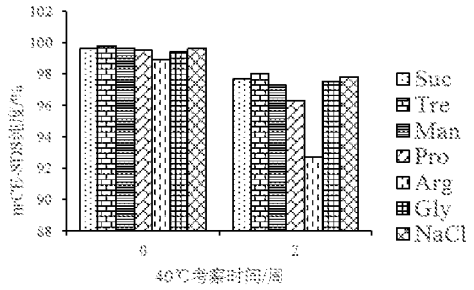



图 11

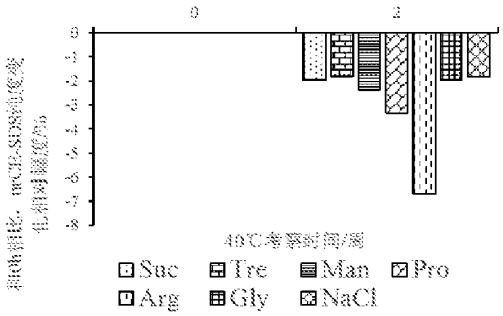



图 12

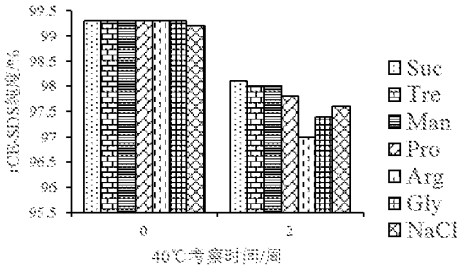



图 13

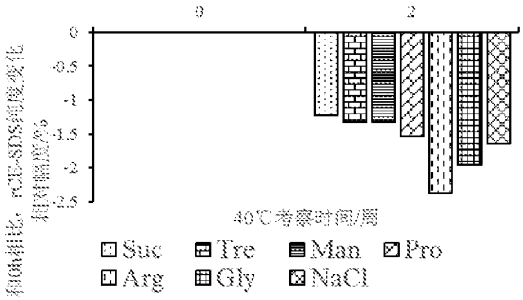



图 14

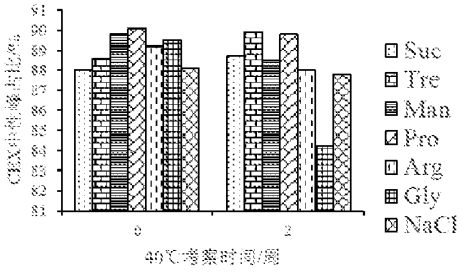



图 15

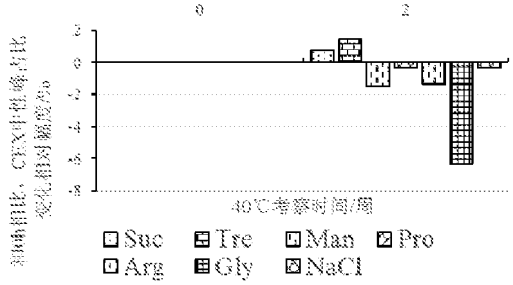



图 16

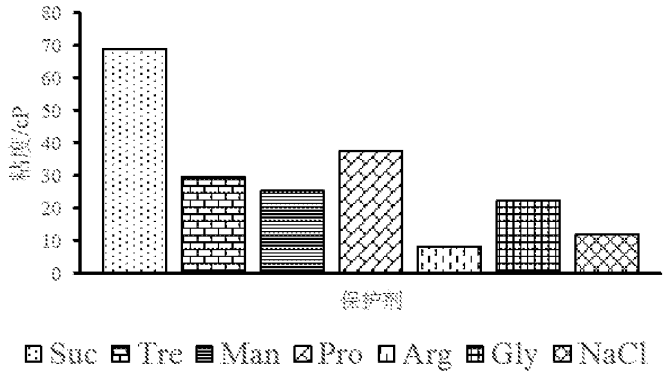
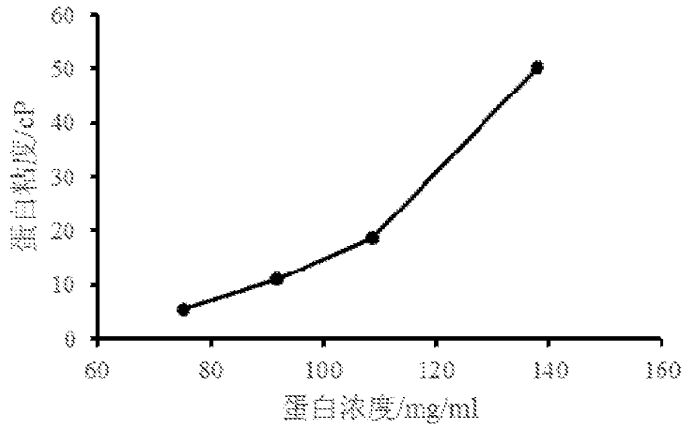



图 17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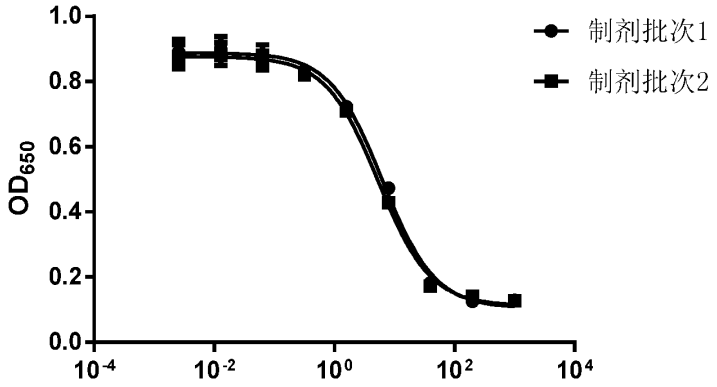
50
40
30
20
10
0
60
80
100
120
140
160
蛋白浓度/mg/ml

图 18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0.8
0.6
0.4
0.2
0.0
OD650
10-4
10-2
100
102
104
制剂批次1
制剂批次2
蛋白浓度/ng/mL

图 19