

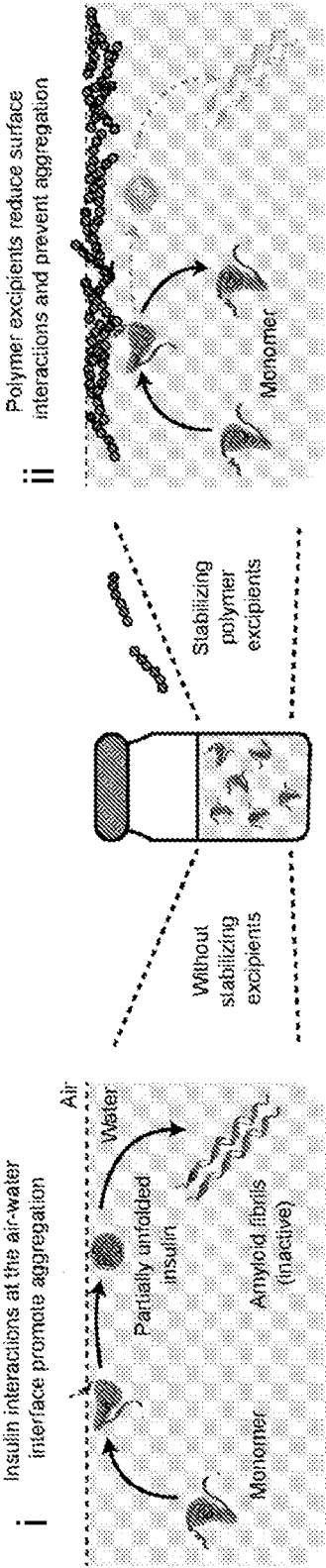
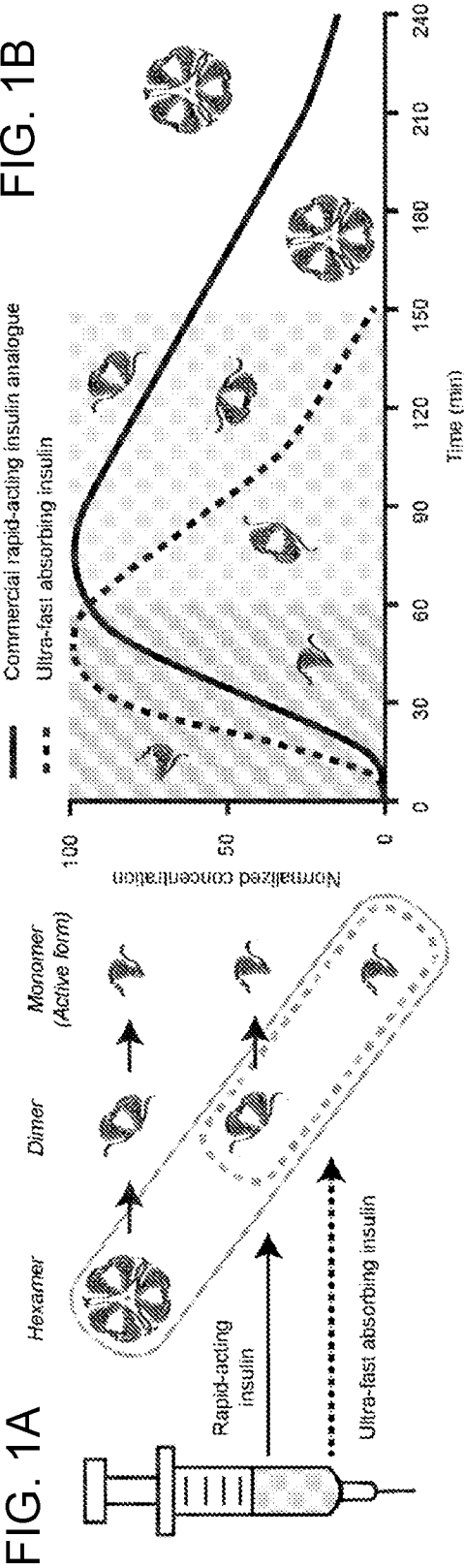


FIG. 1C

2/34

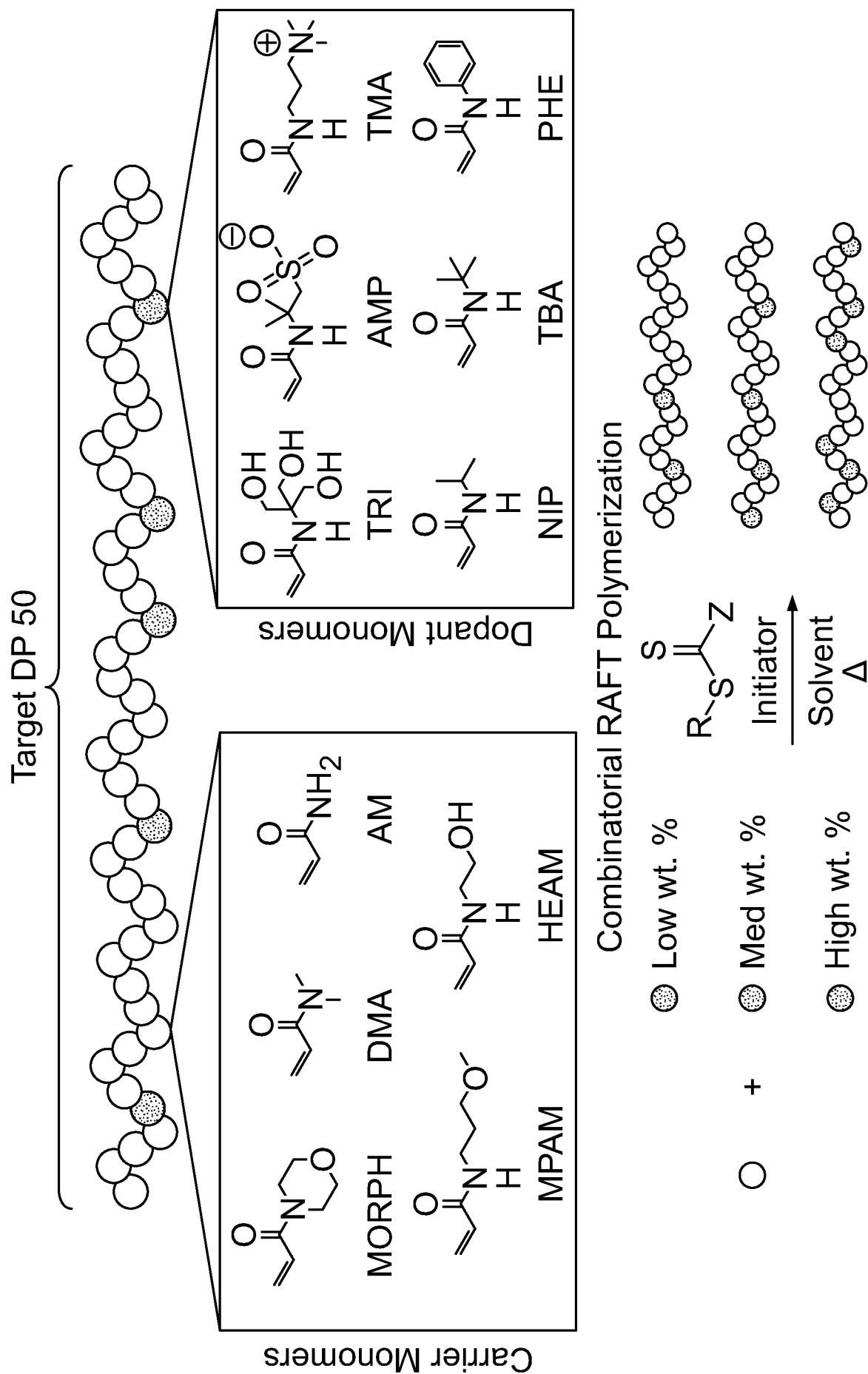


FIG. 2

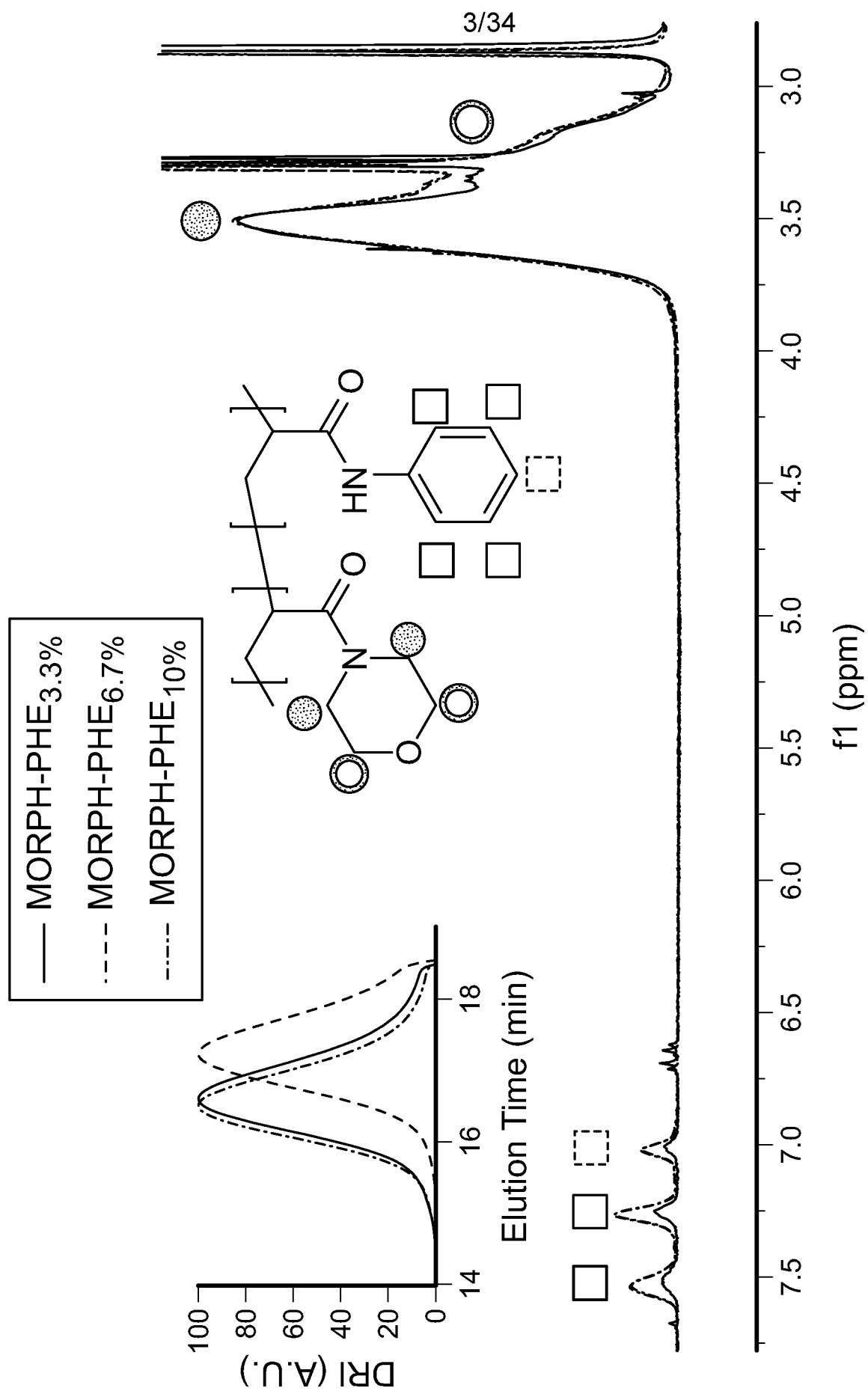


FIG. 3

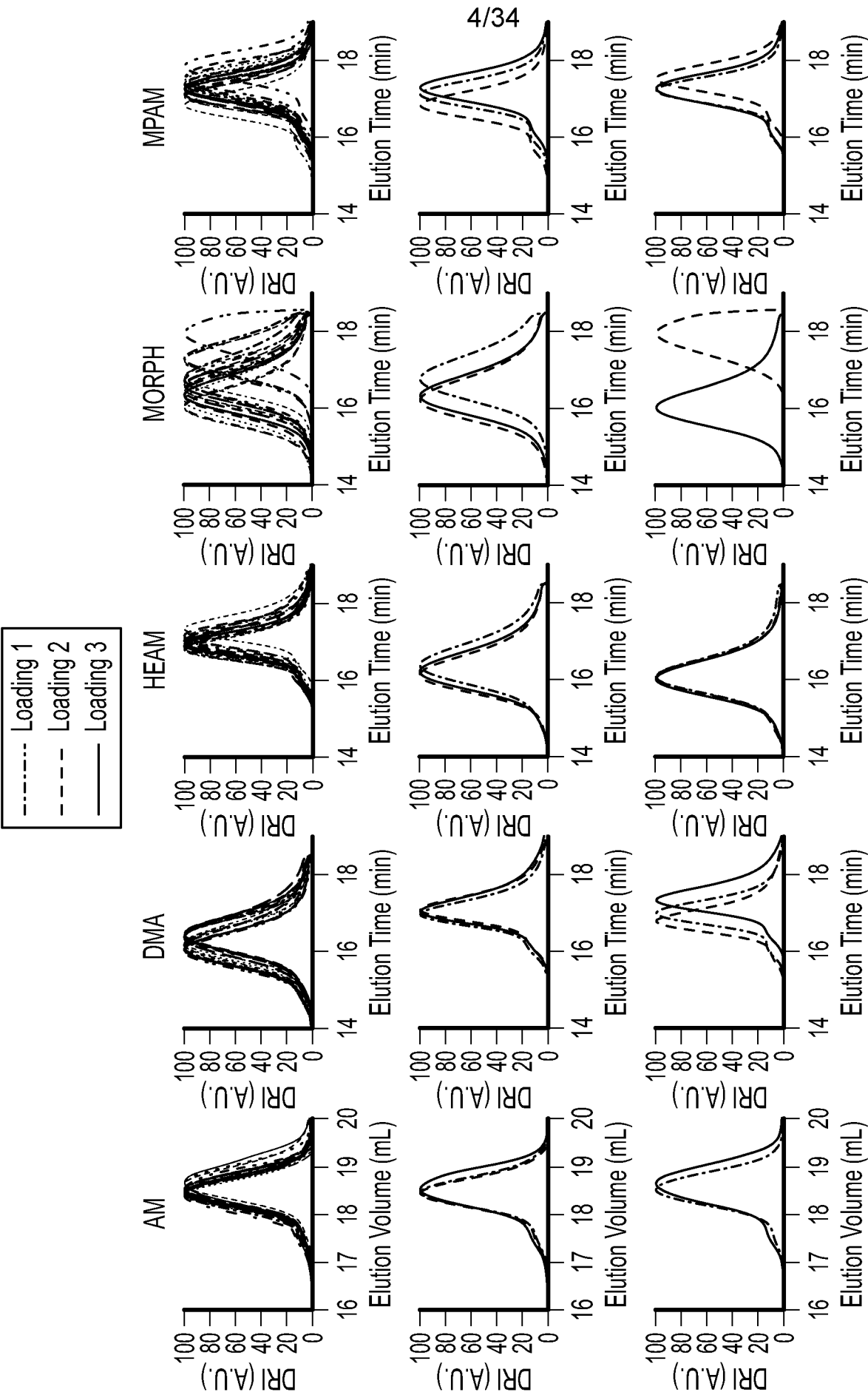


FIG. 4

5/34

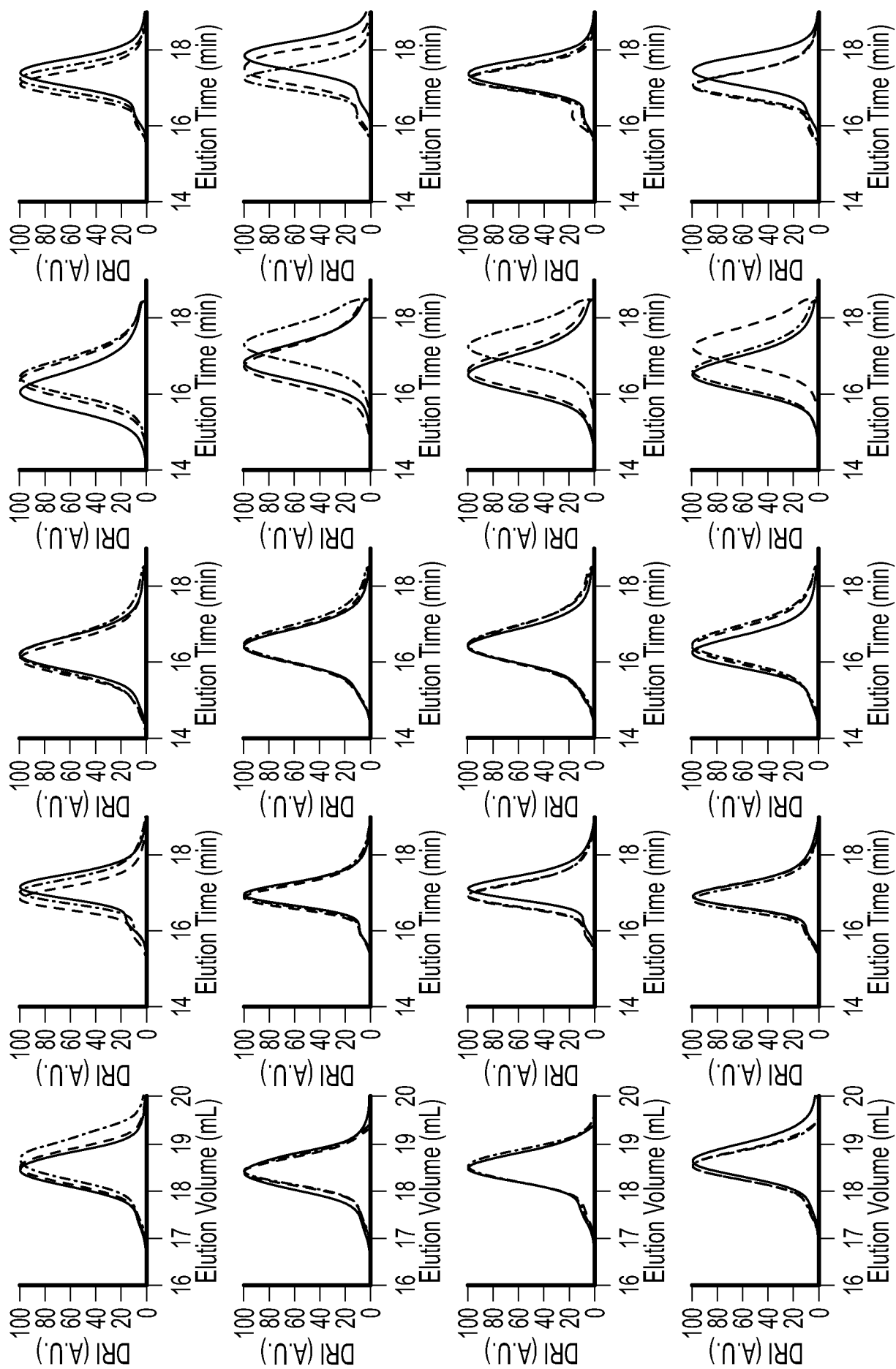


FIG. 4 (CONT)

FIG. 5A

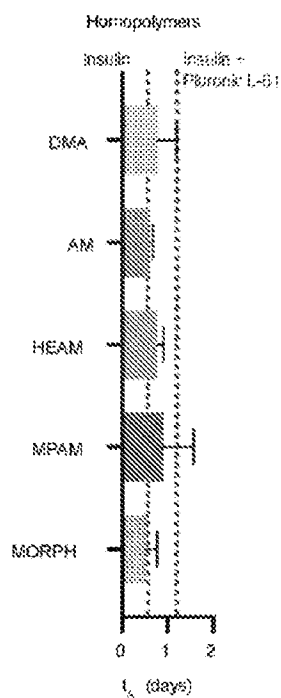


FIG. 5B

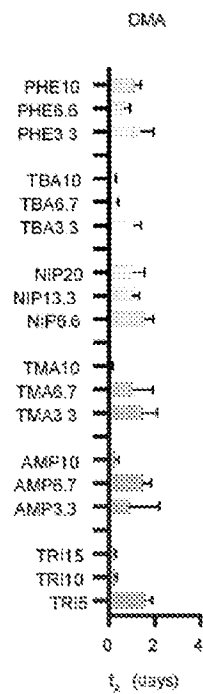


FIG. 5C

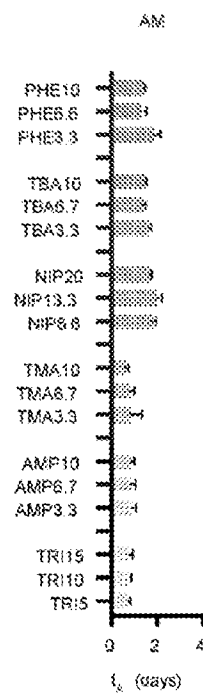


FIG. 5D

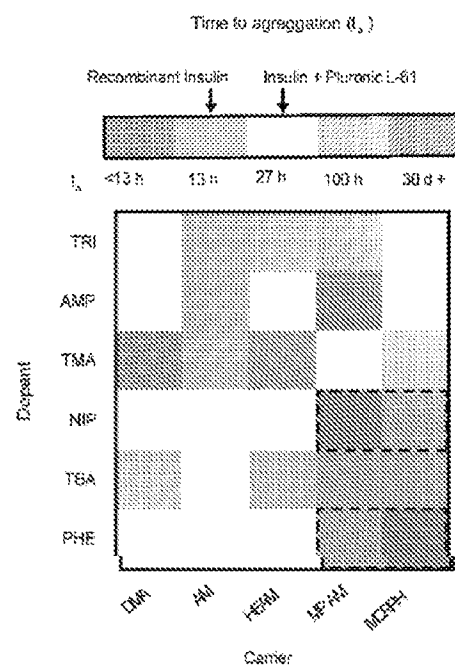
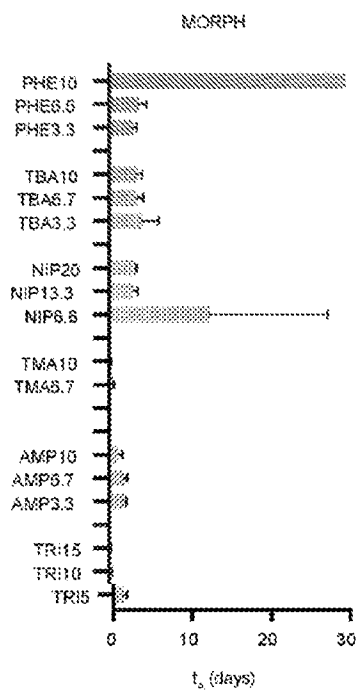
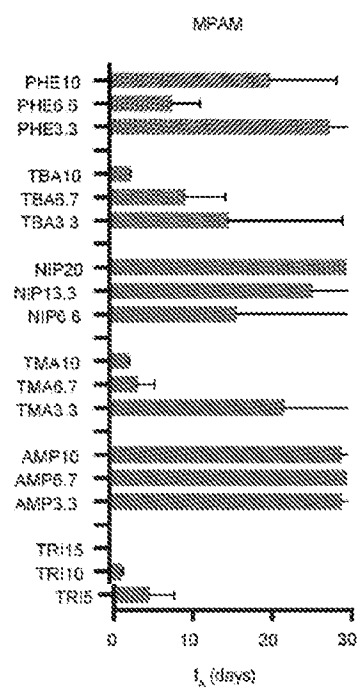
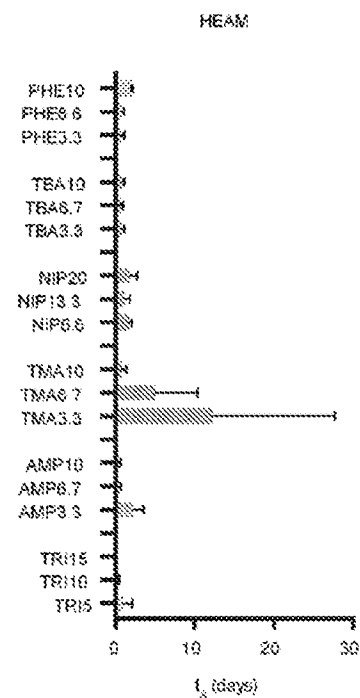


FIG. 5E

FIG. 5F

FIG. 5G

7/34

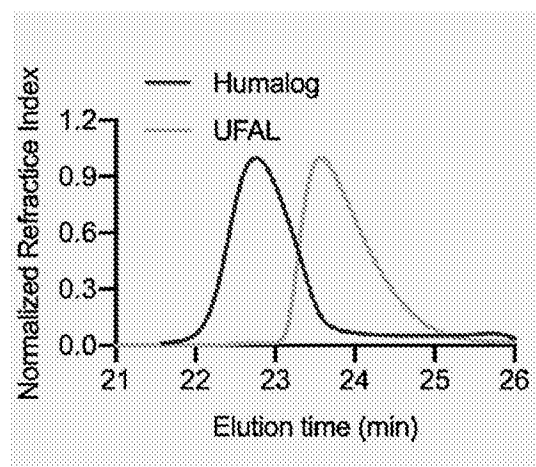


FIG. 6

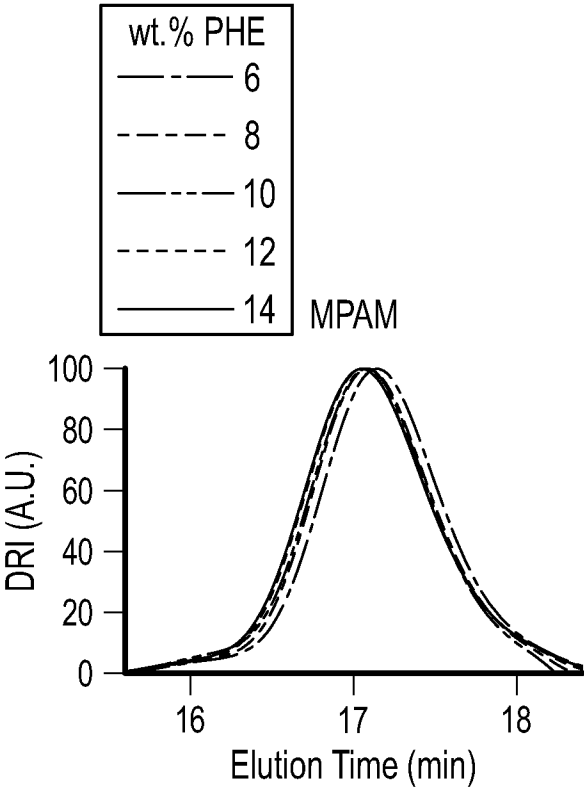


FIG. 7A

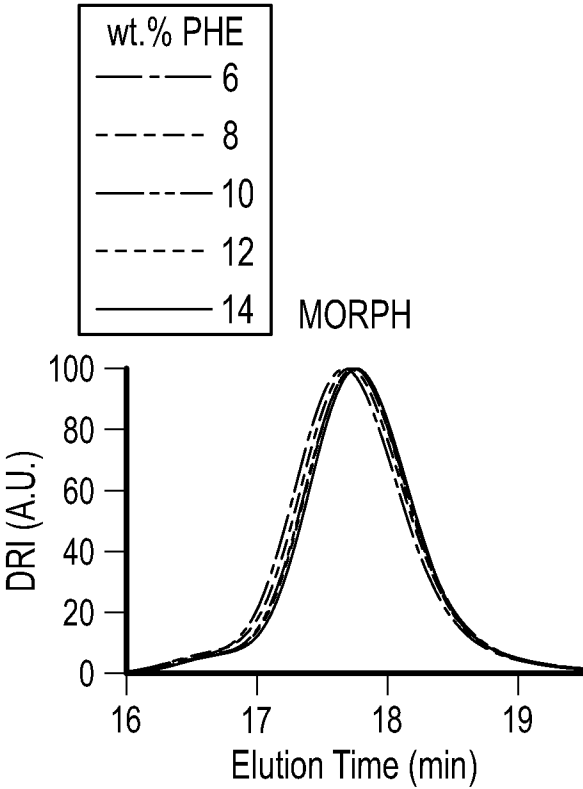


FIG. 7C

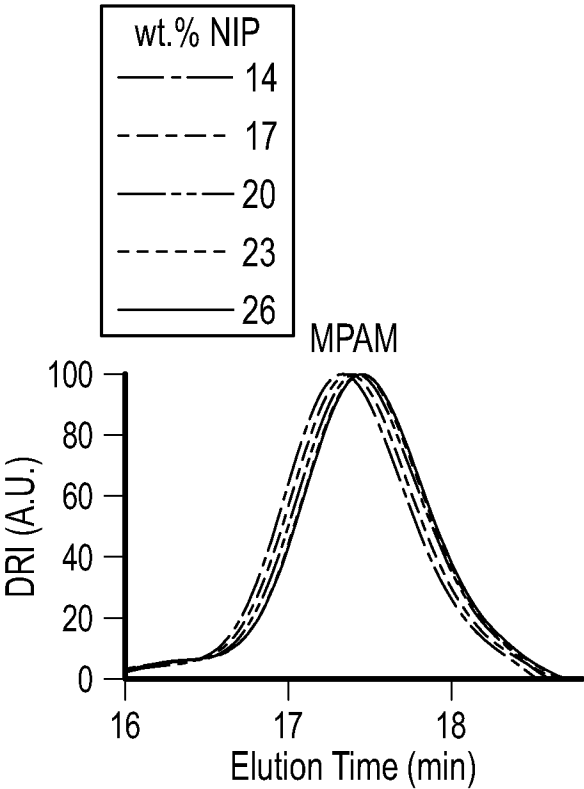


FIG. 7B

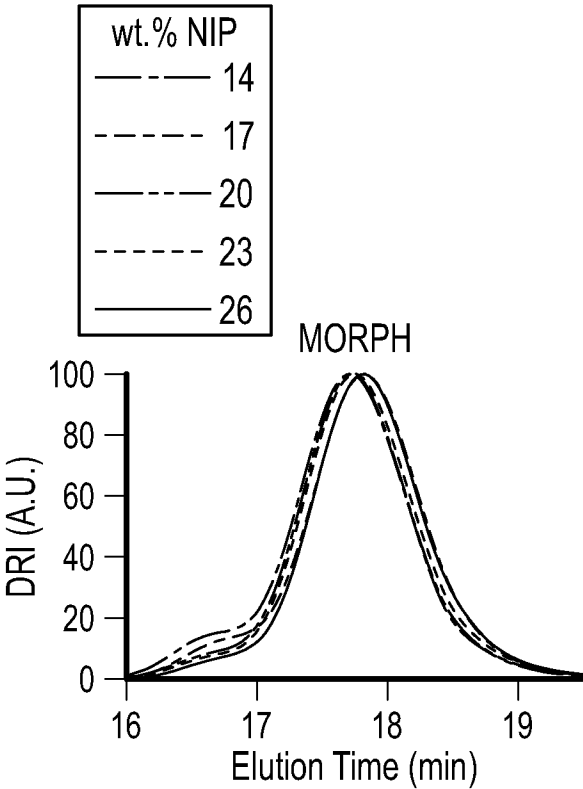


FIG. 7D

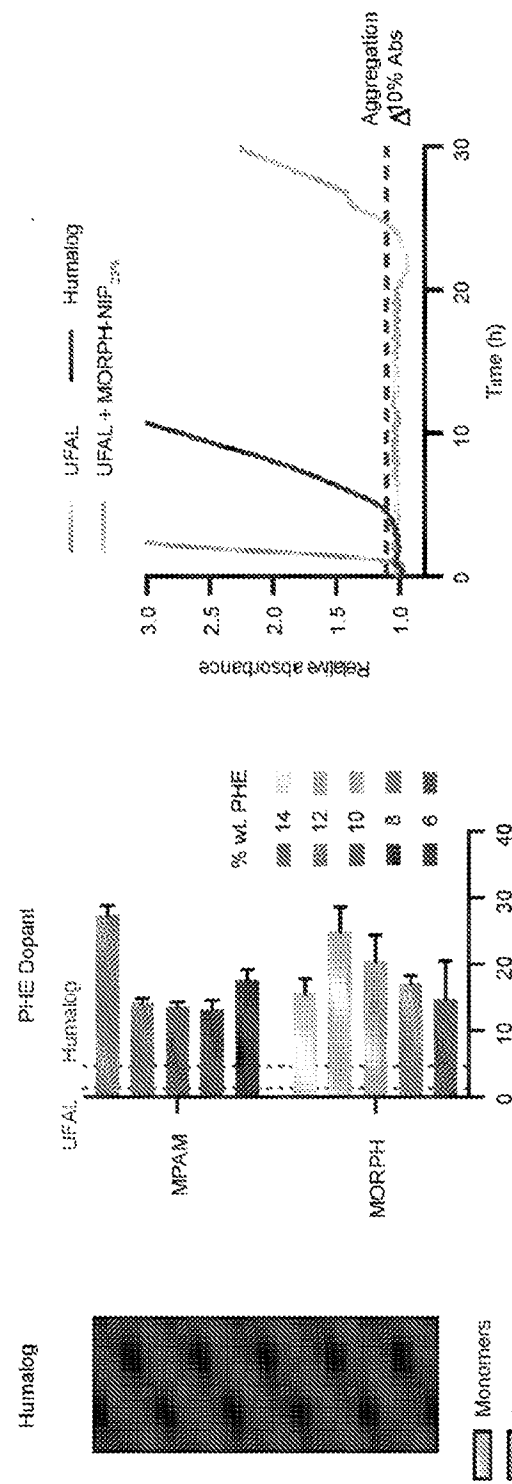


FIG. 8C

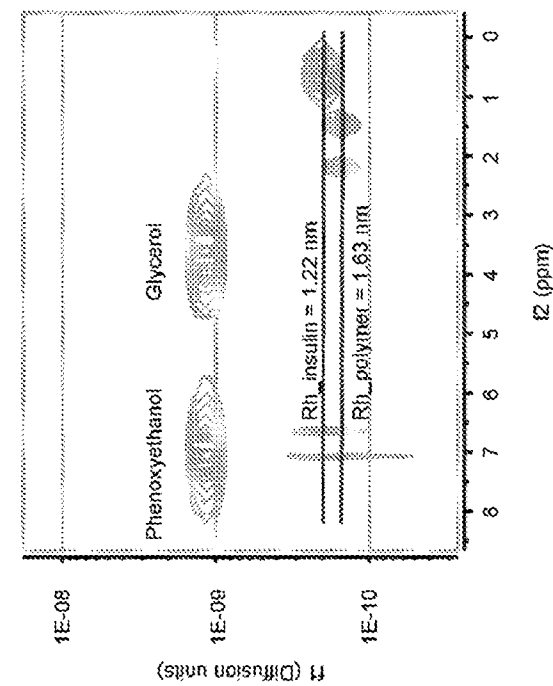


FIG. 8D

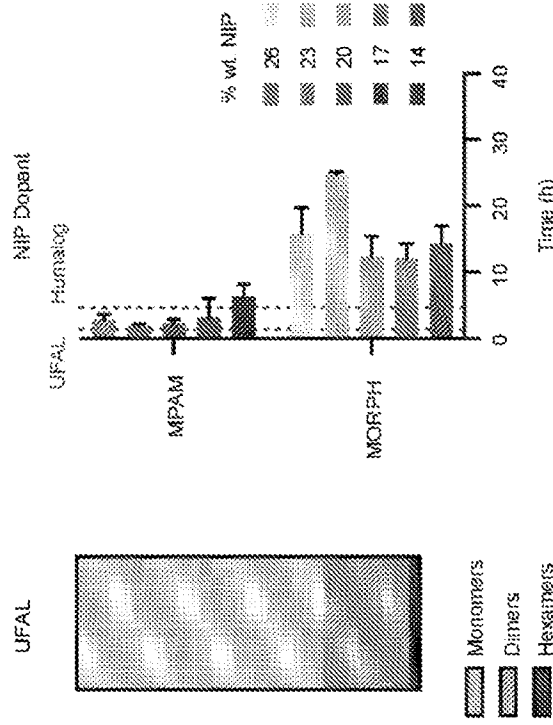


FIG. 8B

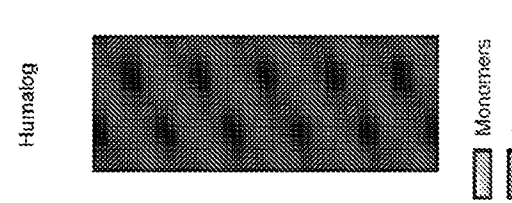


FIG. 8A

10/34

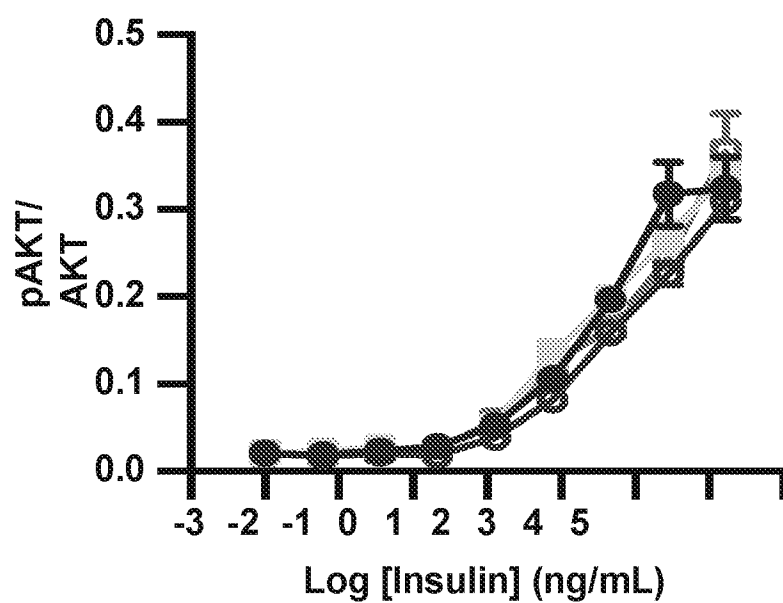


FIG. 9A

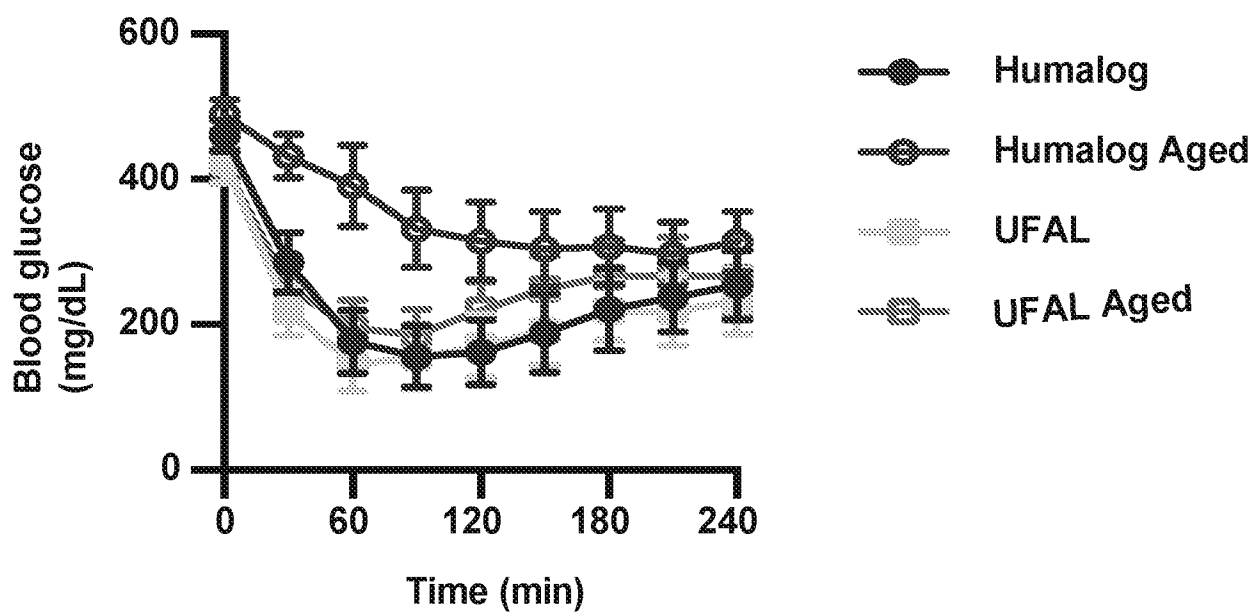
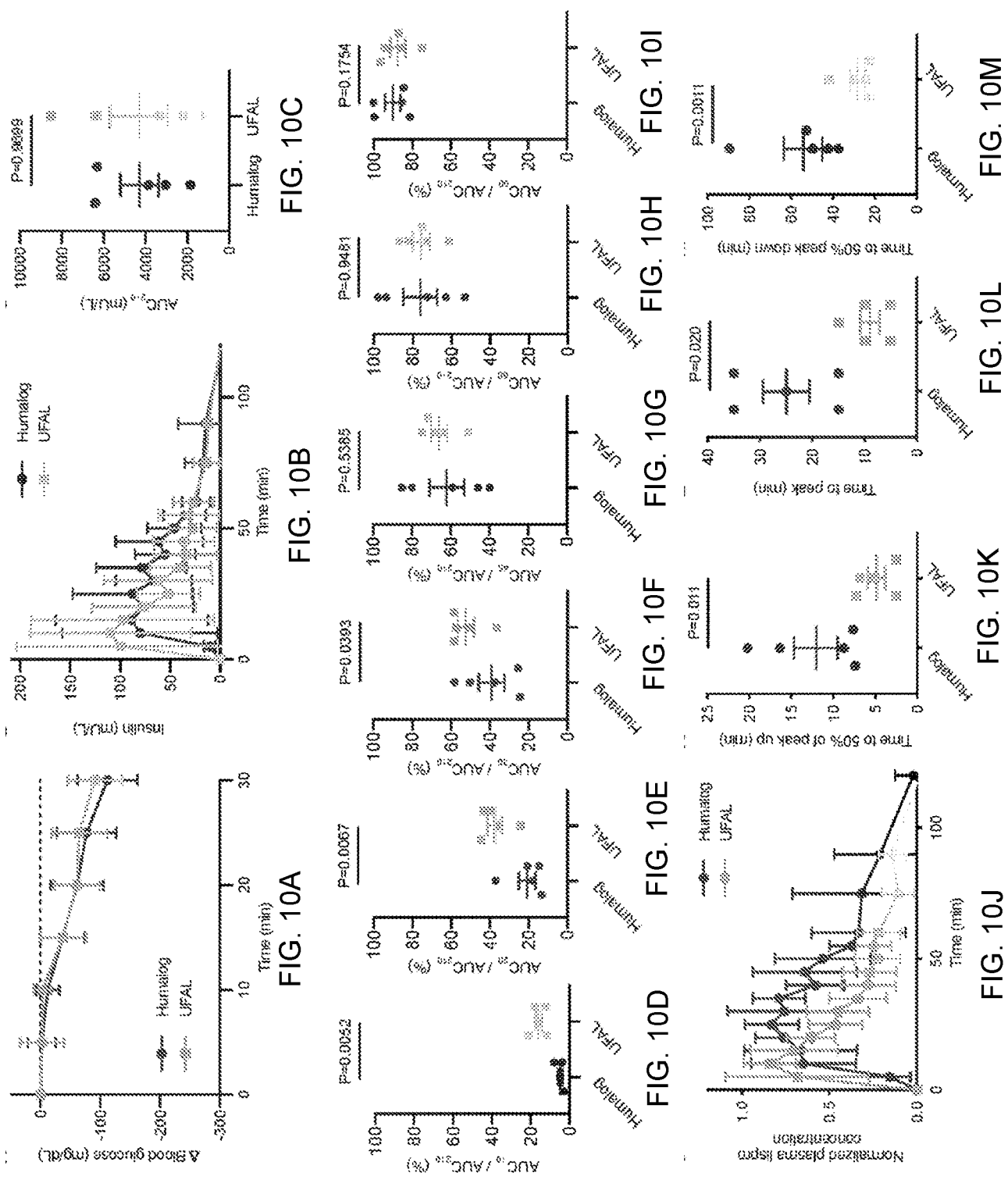


FIG. 9B



12/34

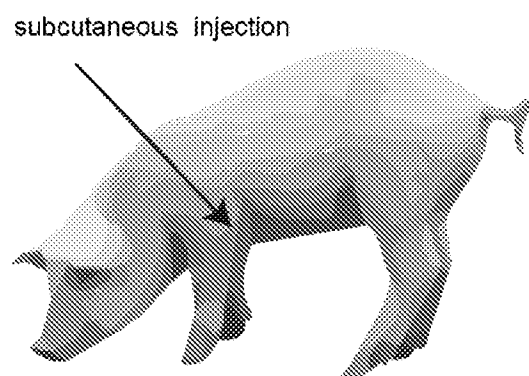


FIG. 11A

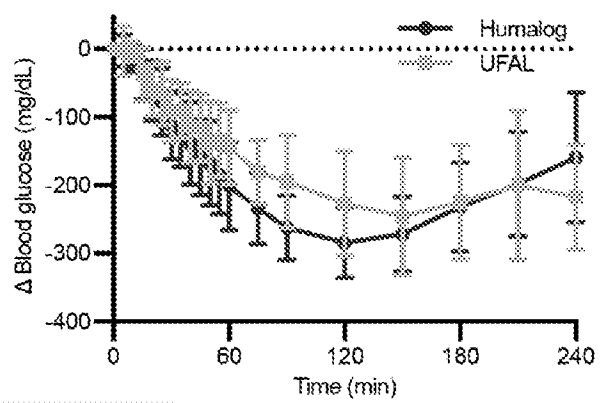


FIG. 11B

FIG. 12A

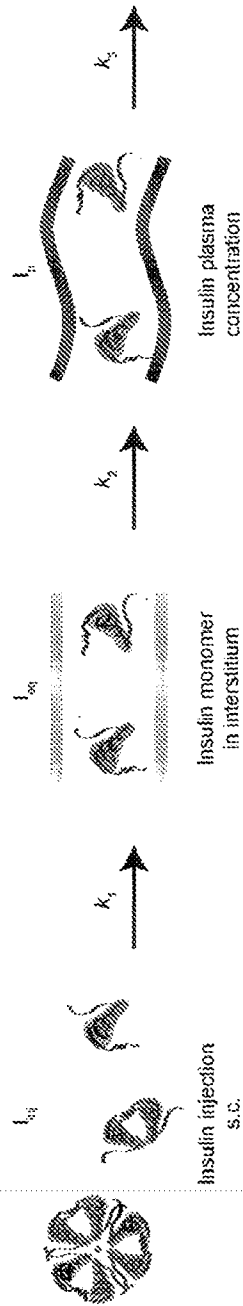


FIG. 12B

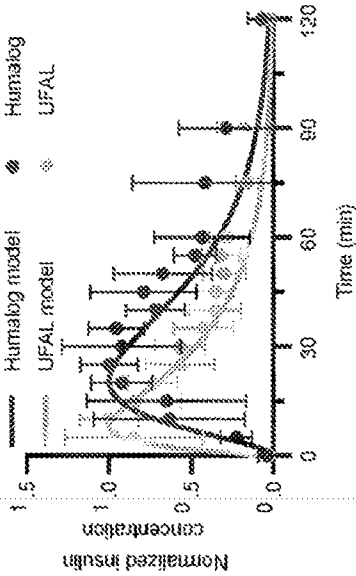
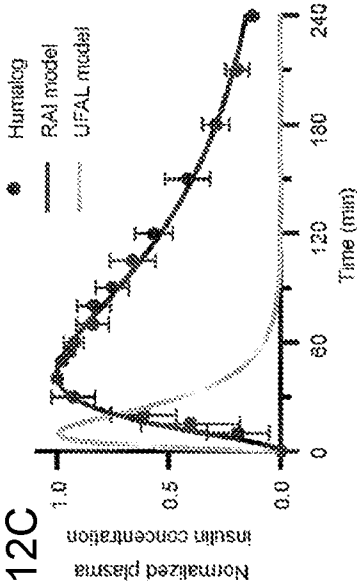
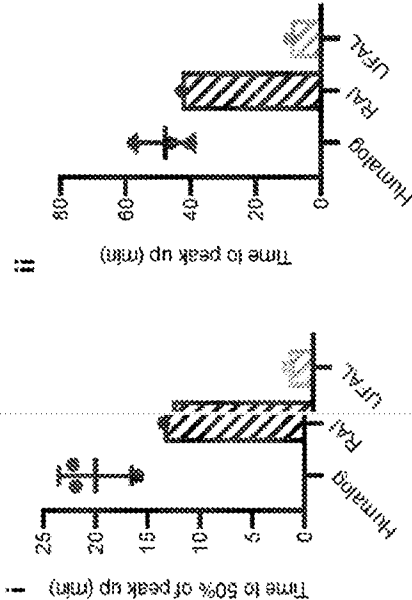


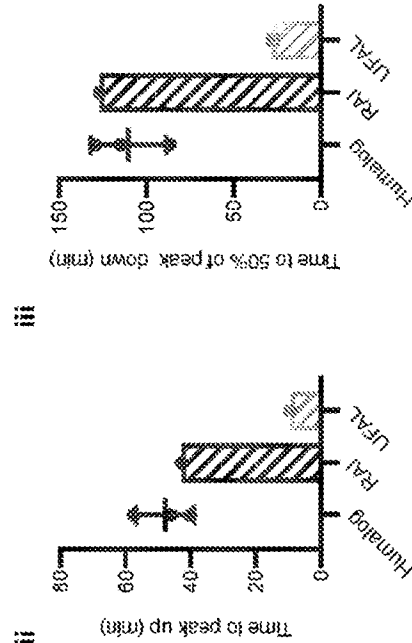
FIG. 12C



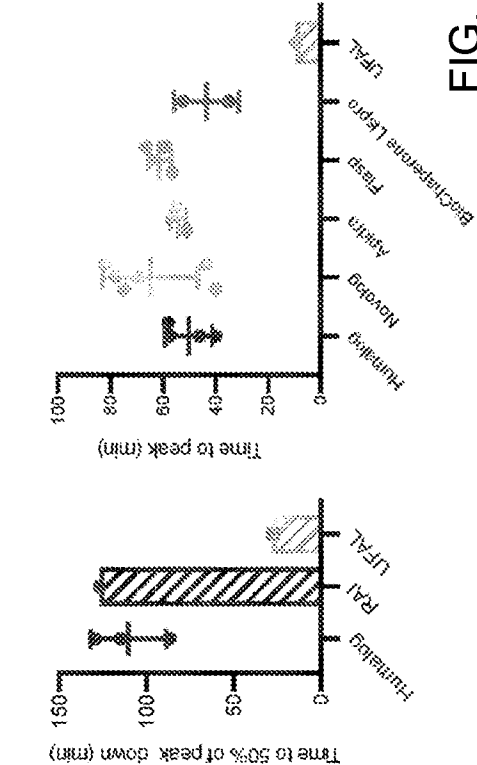
iii



ii



iii



Time to peak (min)

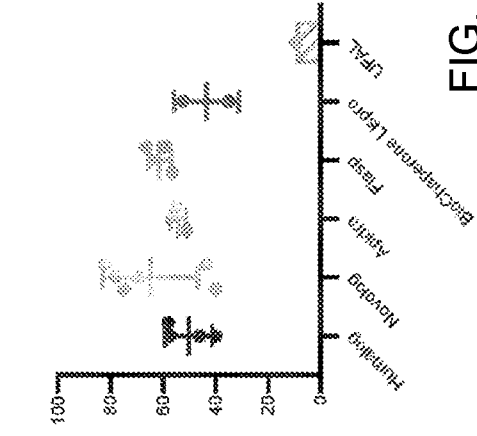


FIG. 12D

FIG. 12E

14/34

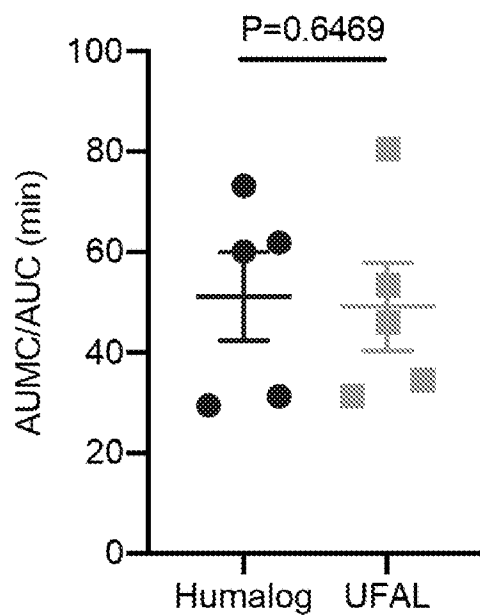


FIG. 13

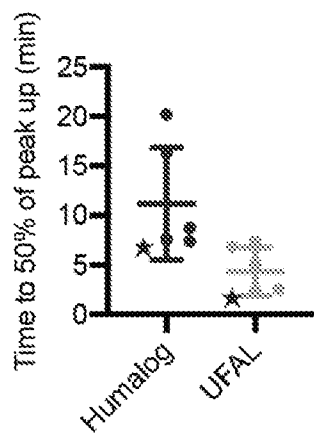


FIG. 14A

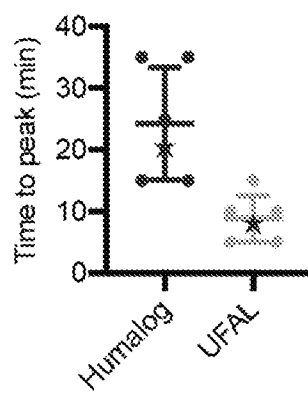


FIG. 14B

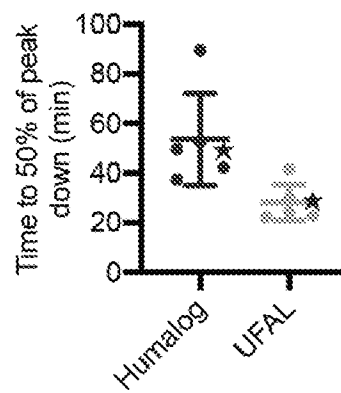
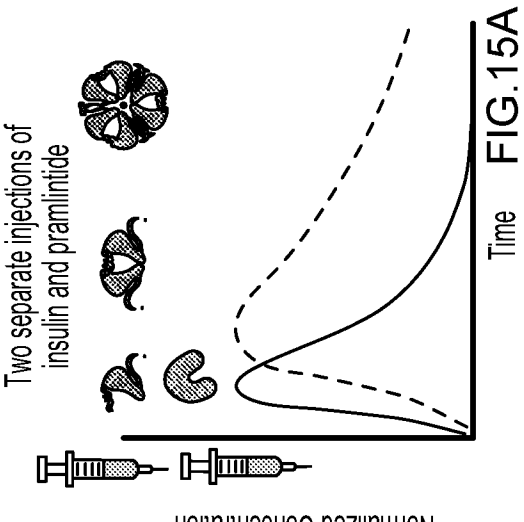
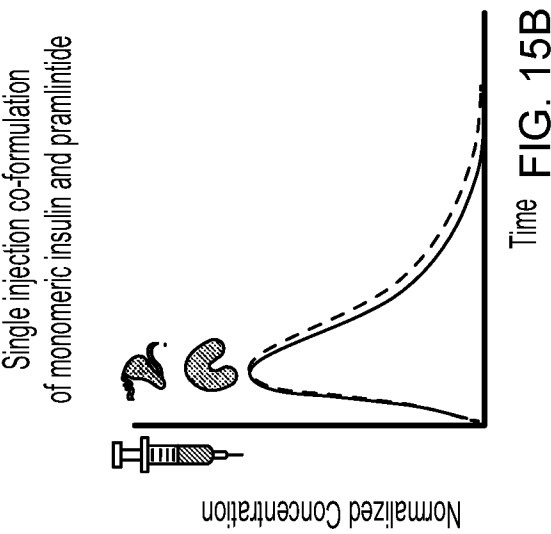
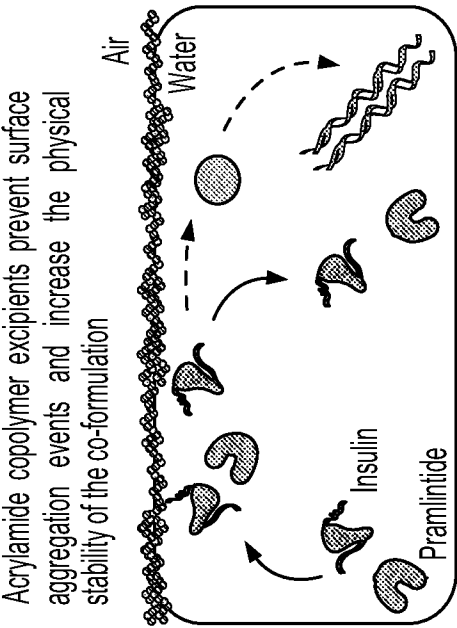
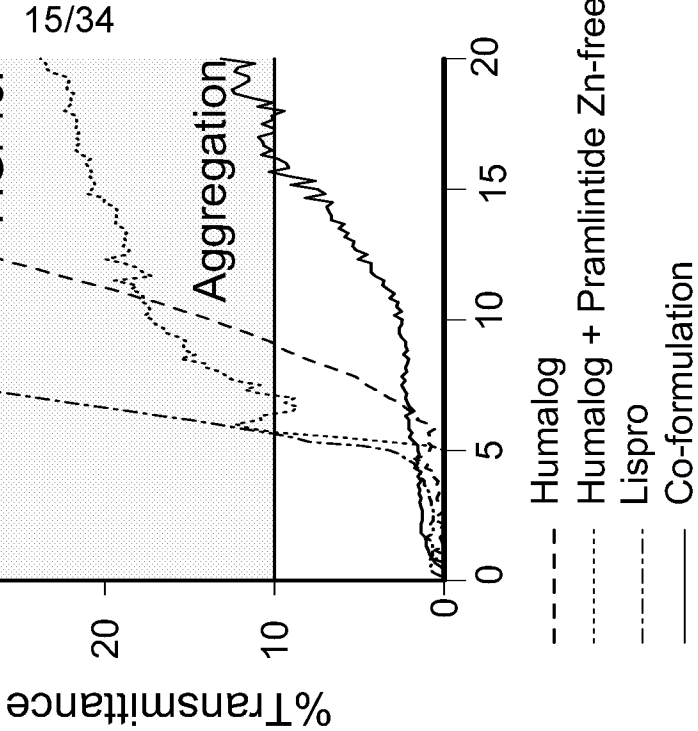
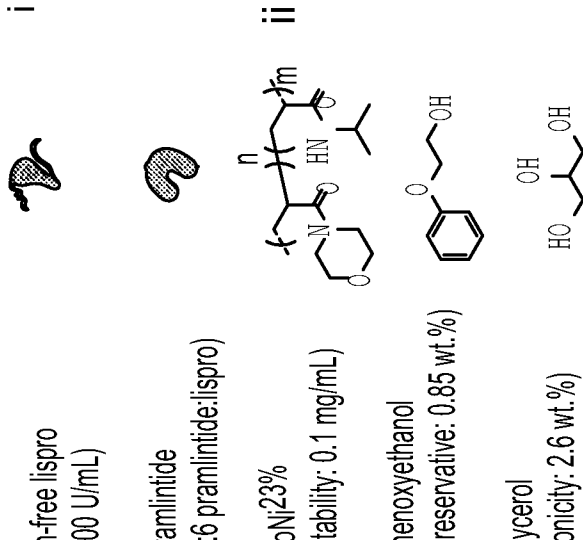


FIG. 14C



Co-formulation Components



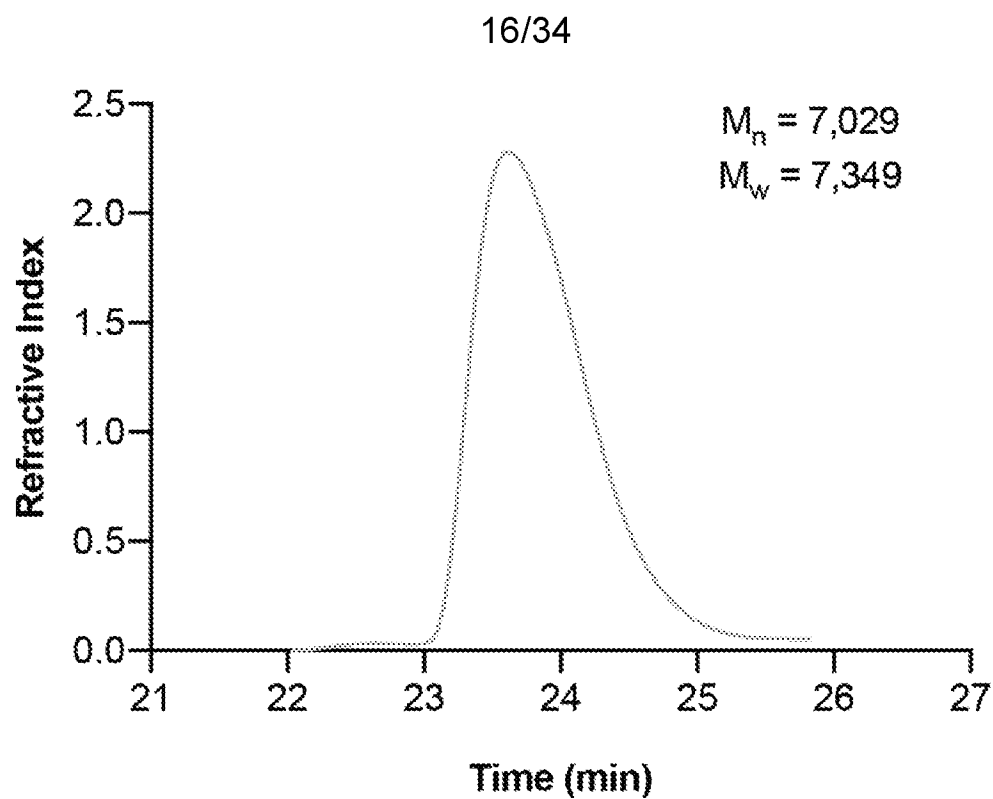


FIG. 16

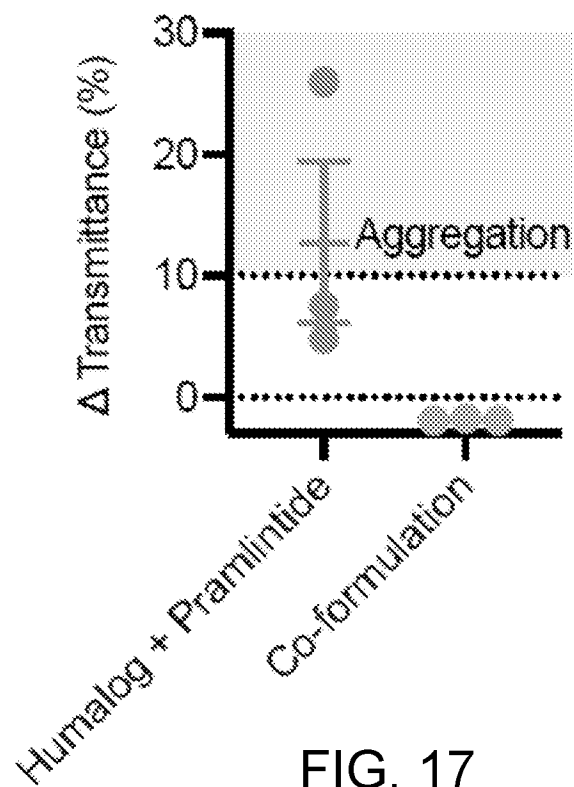


FIG. 17

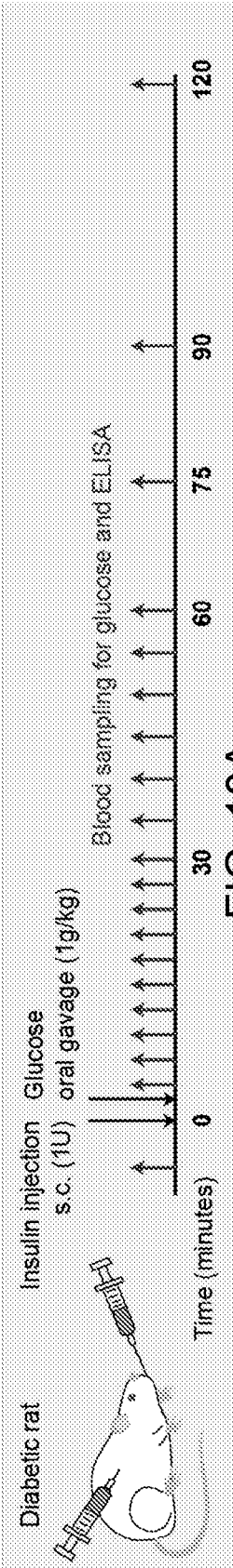


FIG. 18A

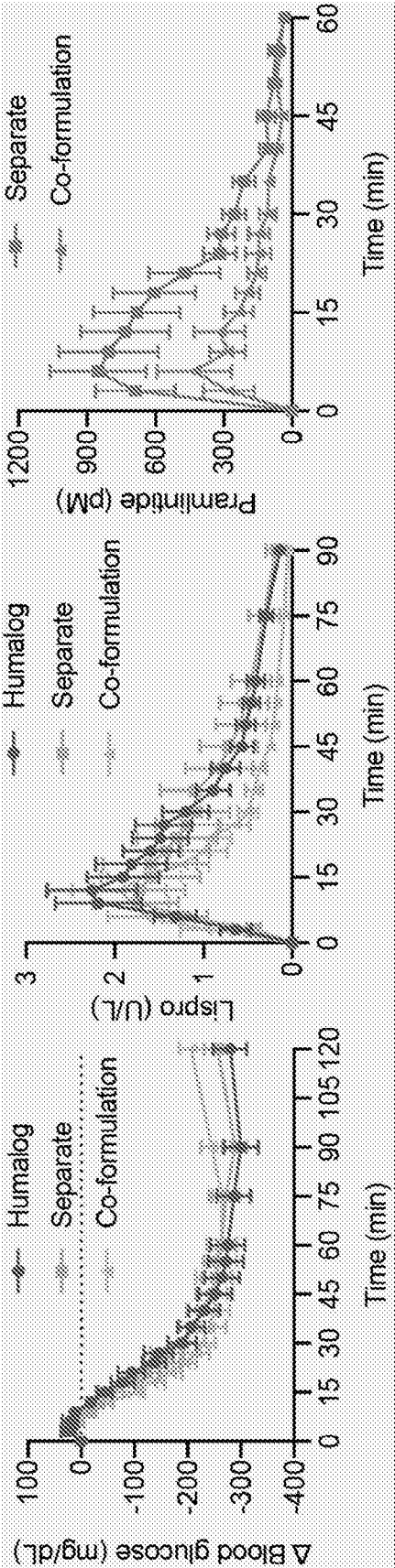
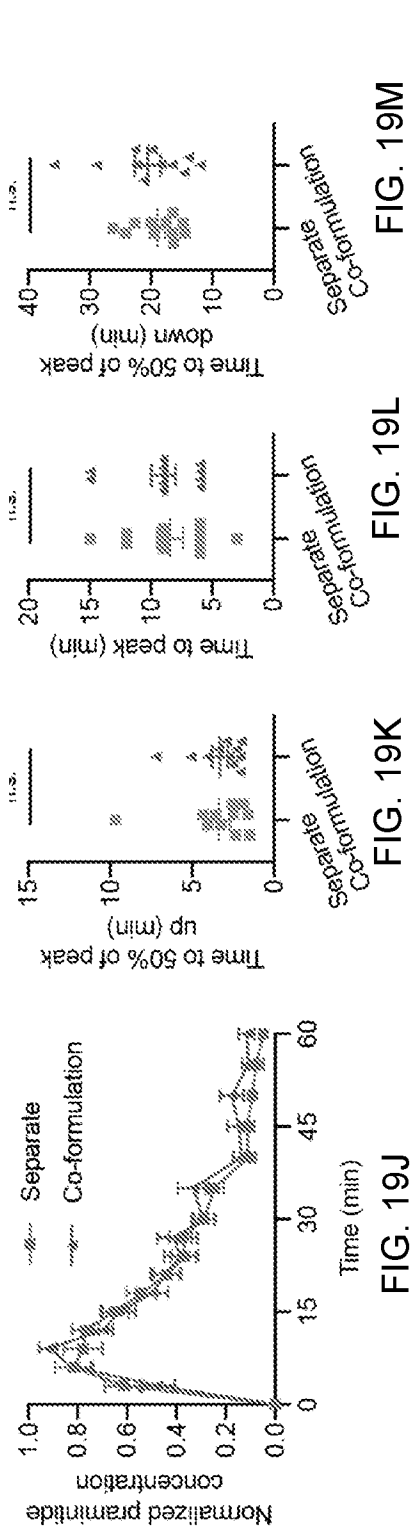
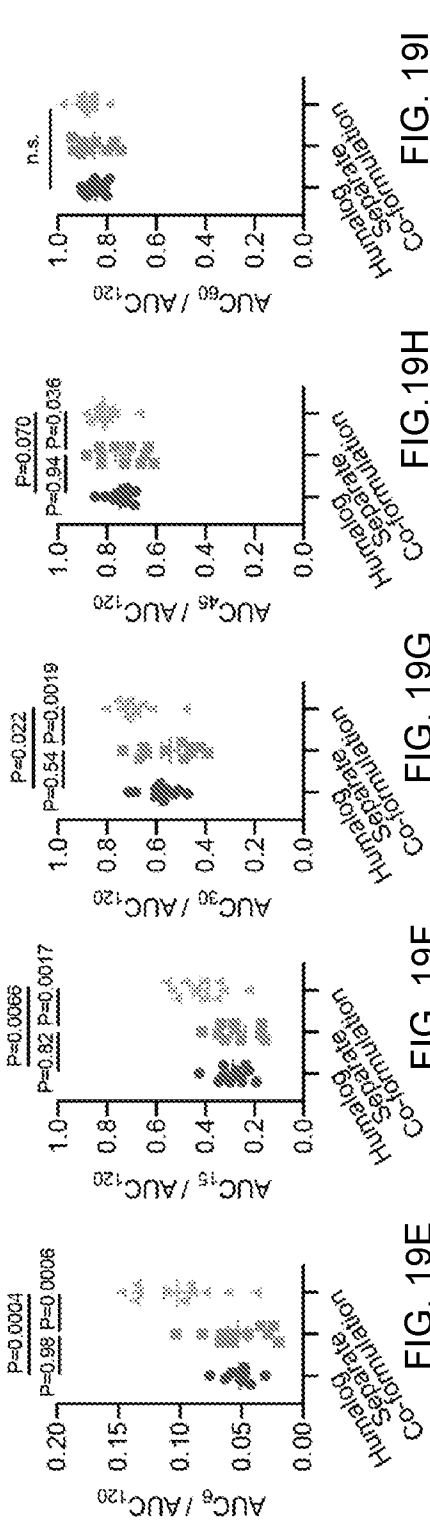
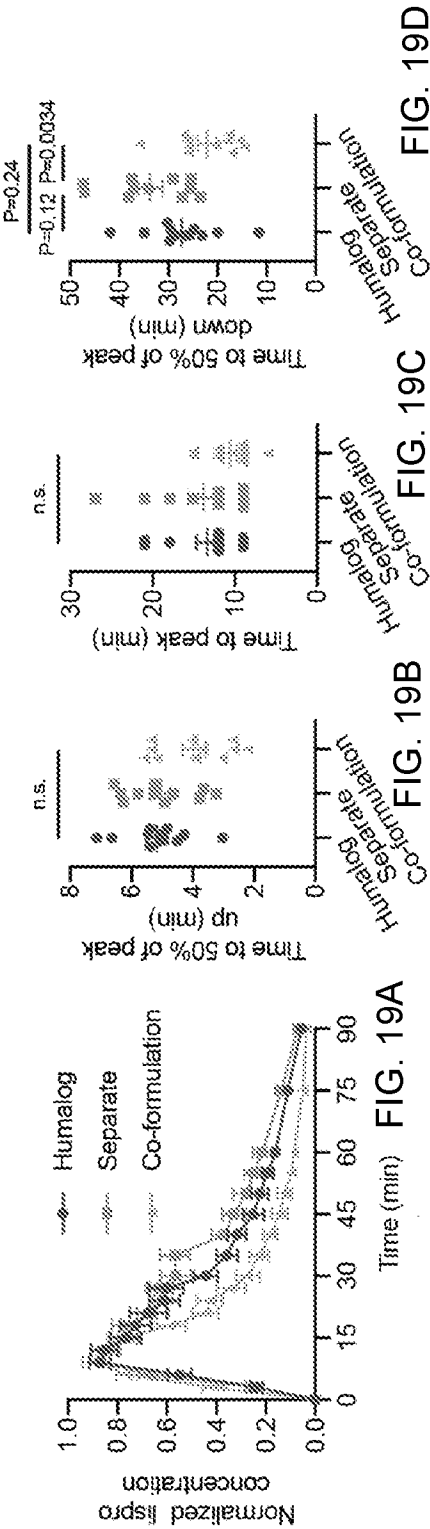


FIG. 18B

FIG. 18C

FIG. 18D



19/34

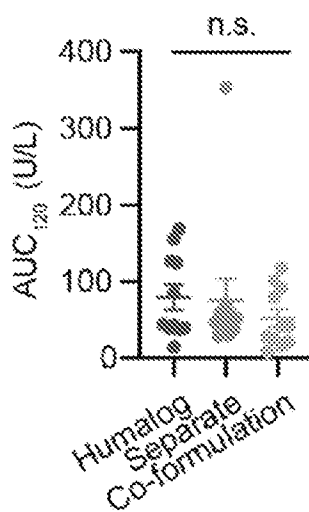


FIG. 20A

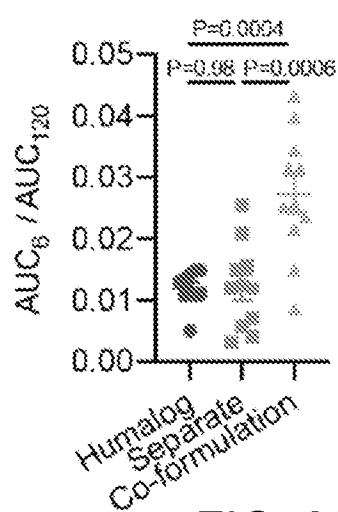


FIG. 20B

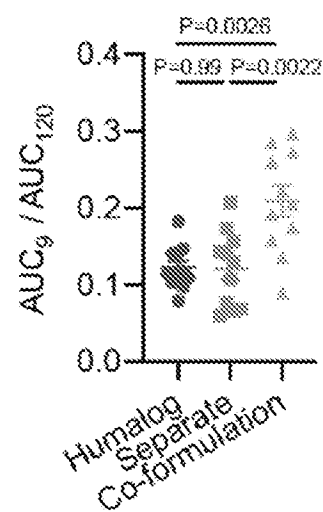


FIG. 20C

FIG. 21B

FIG. 21C

FIG. 21D

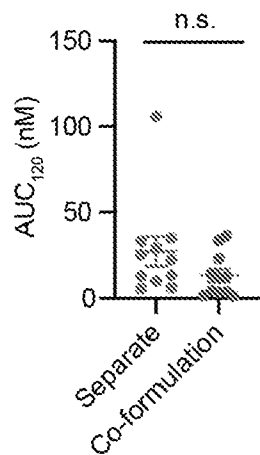


FIG. 21A

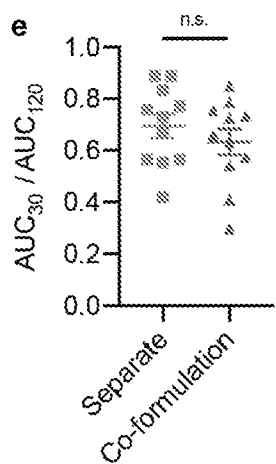
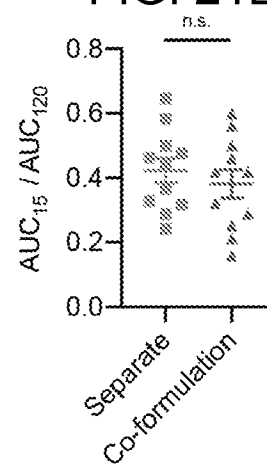
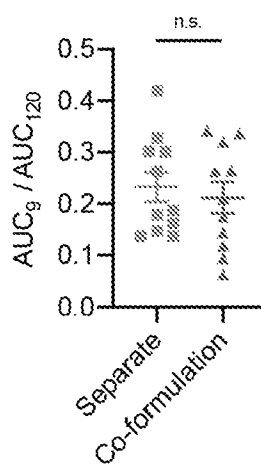
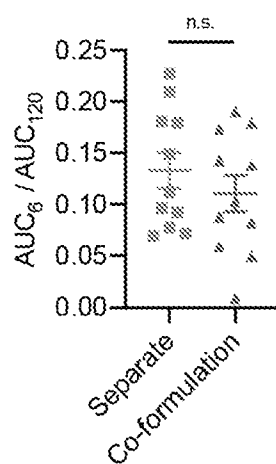


FIG. 21E

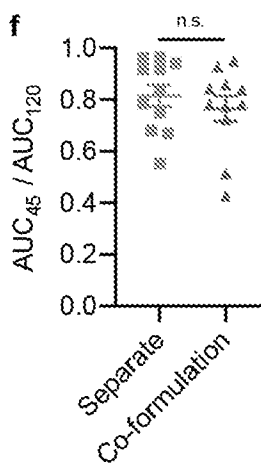


FIG. 21F

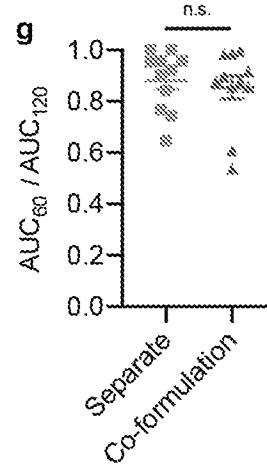


FIG. 21G

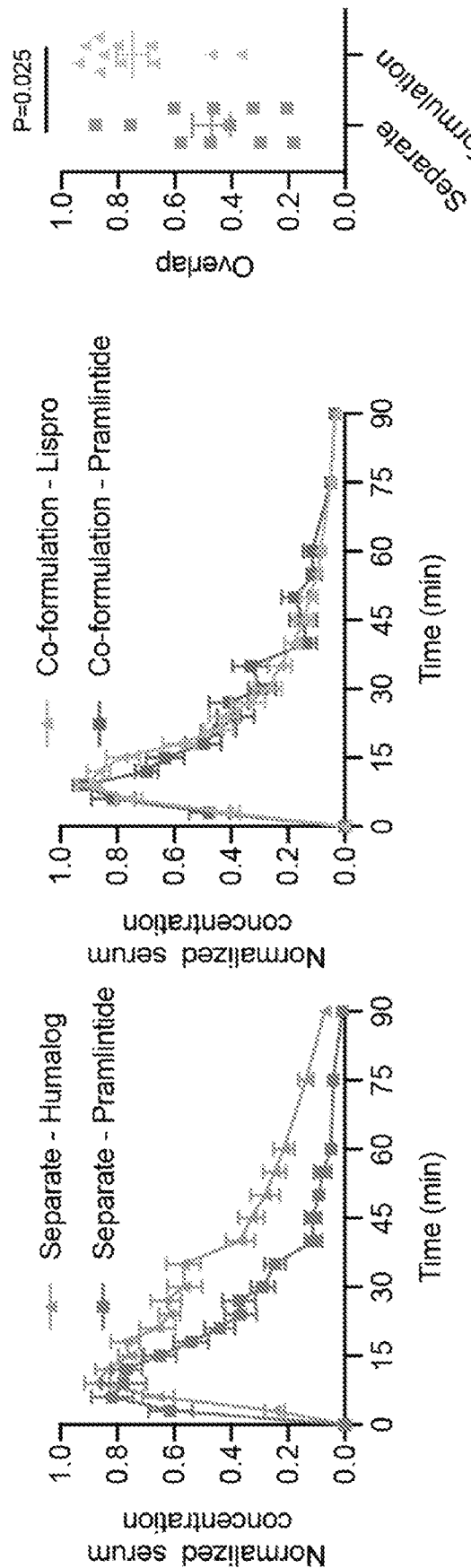


FIG. 22A

FIG. 22B

FIG. 22C

20/34

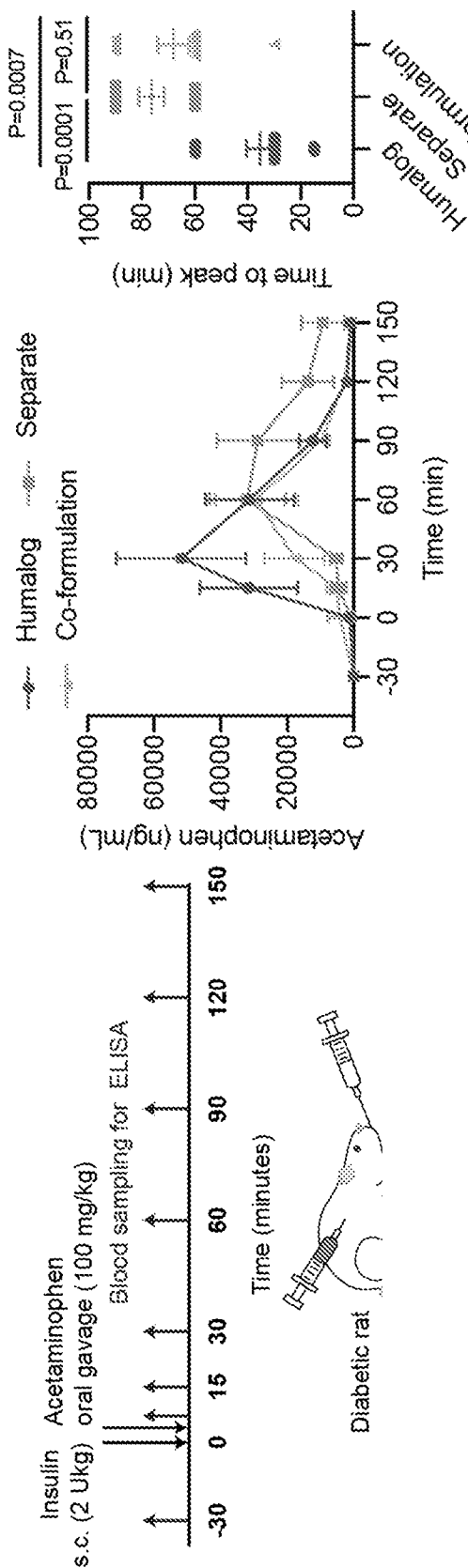


FIG. 23A

FIG. 23B

FIG. 23C

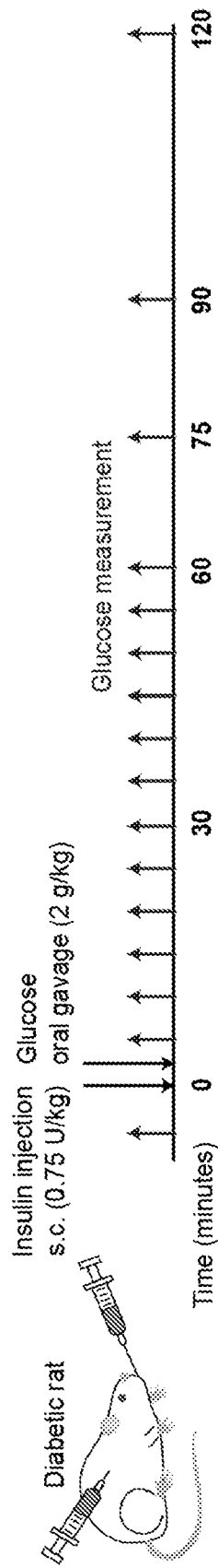


FIG. 24A

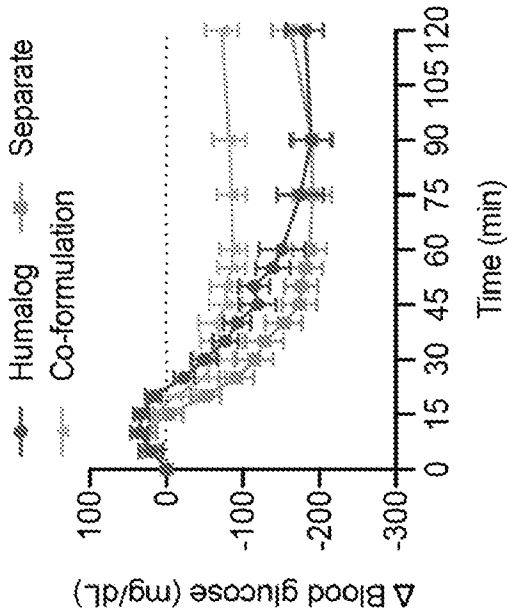


FIG. 24B

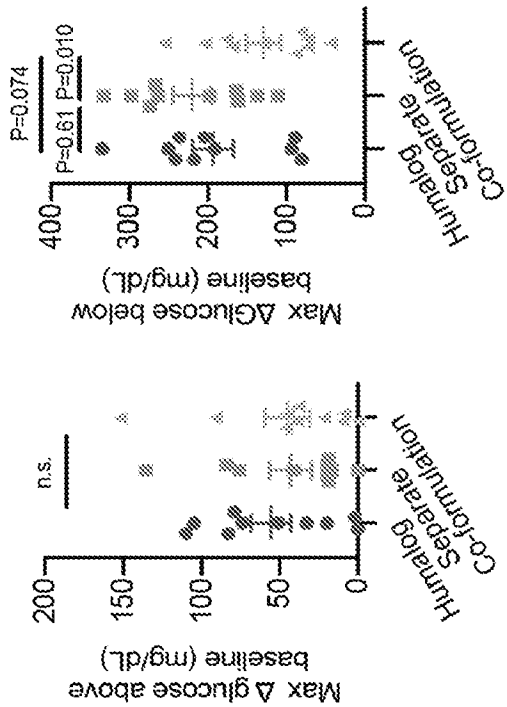


FIG. 24C

FIG. 24D

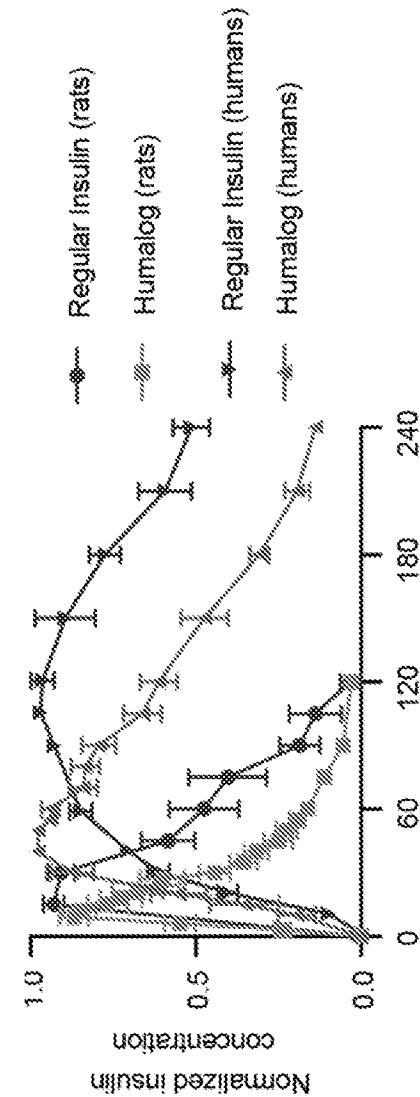


FIG. 25A

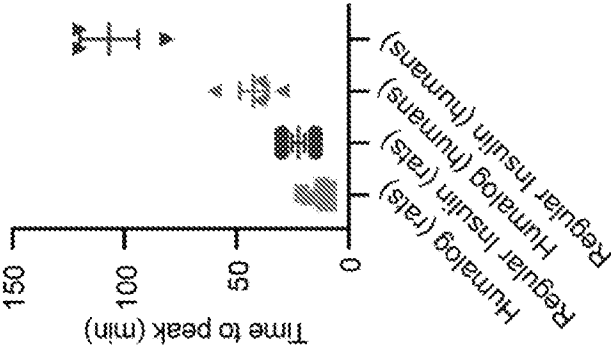


FIG. 25B

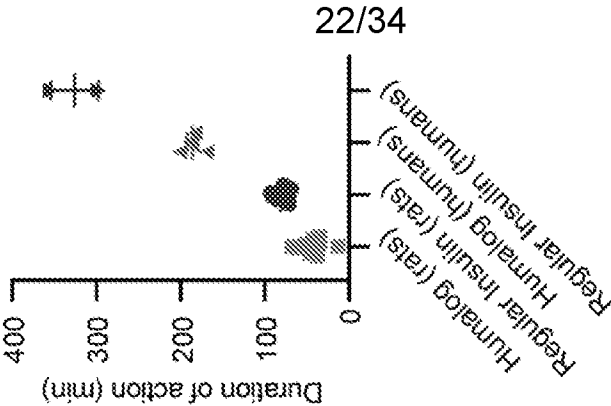
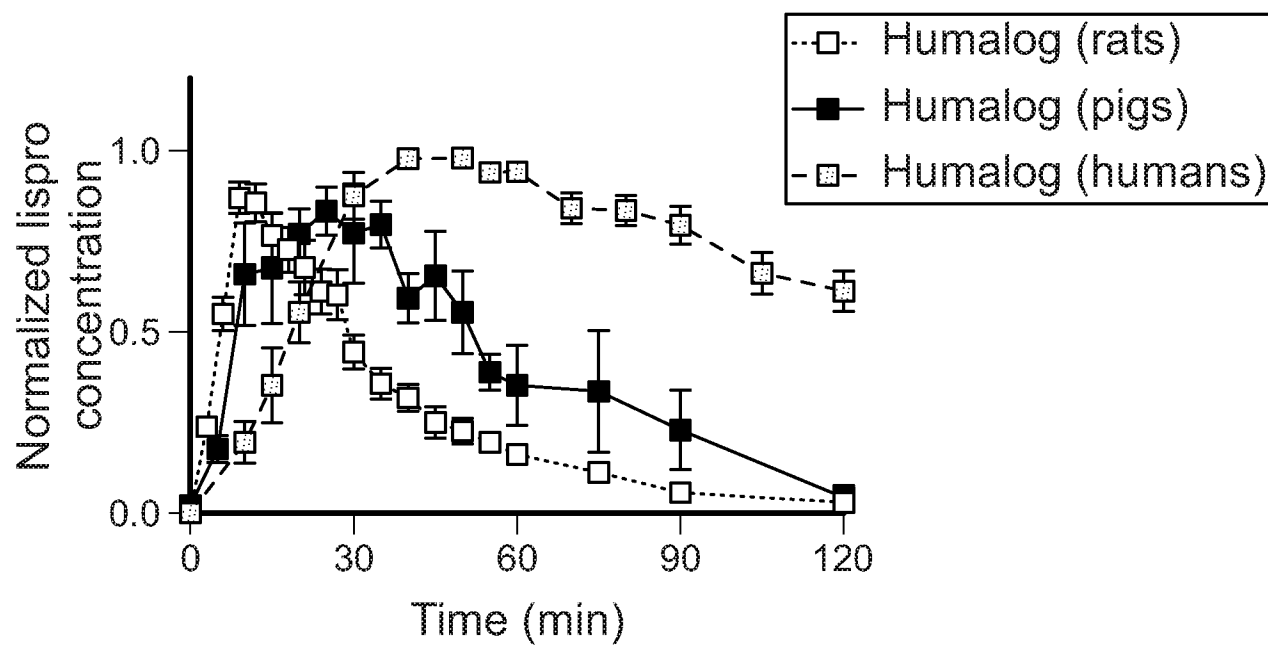


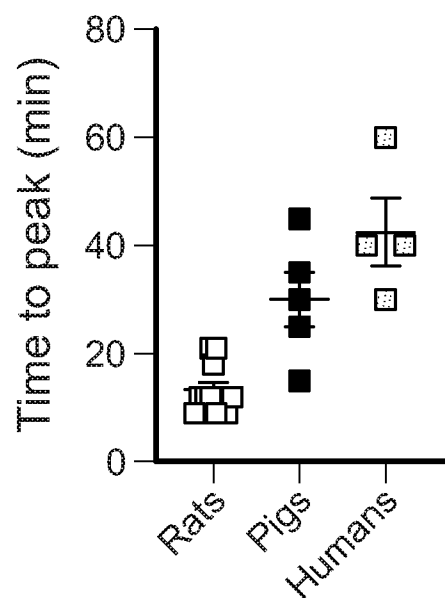
FIG. 25C

23/34

i



ii



iii

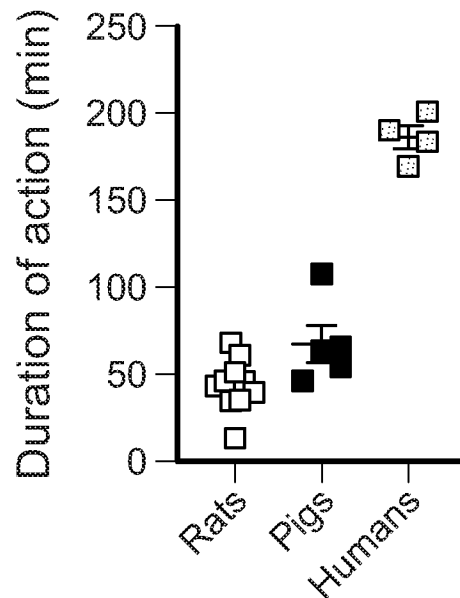
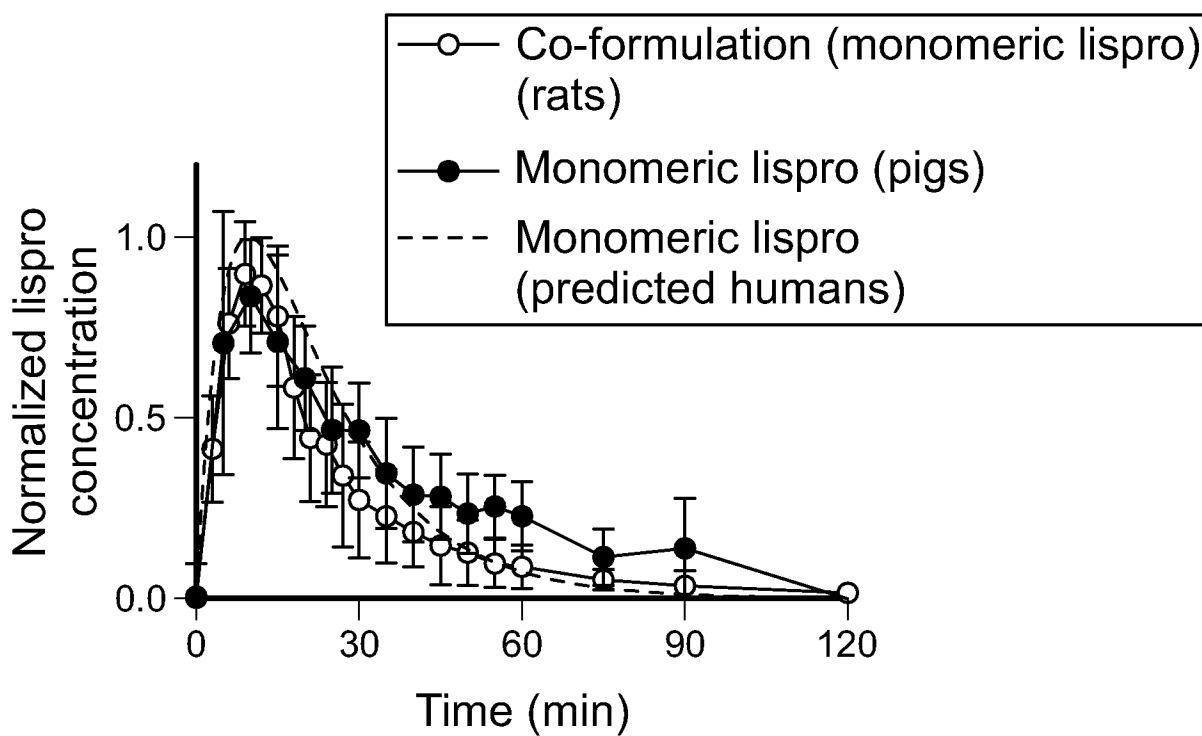


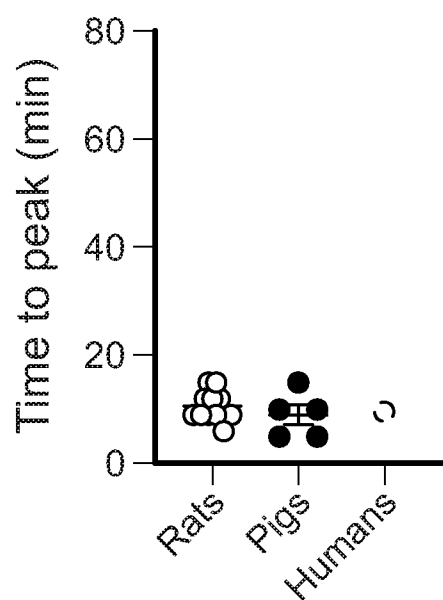
FIG. 26A

24/34

i



ii



iii

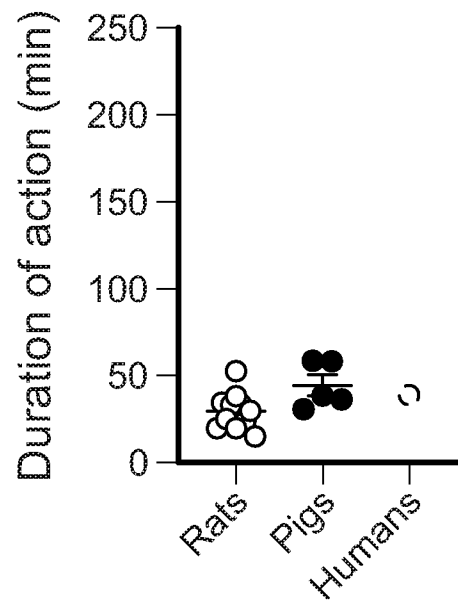
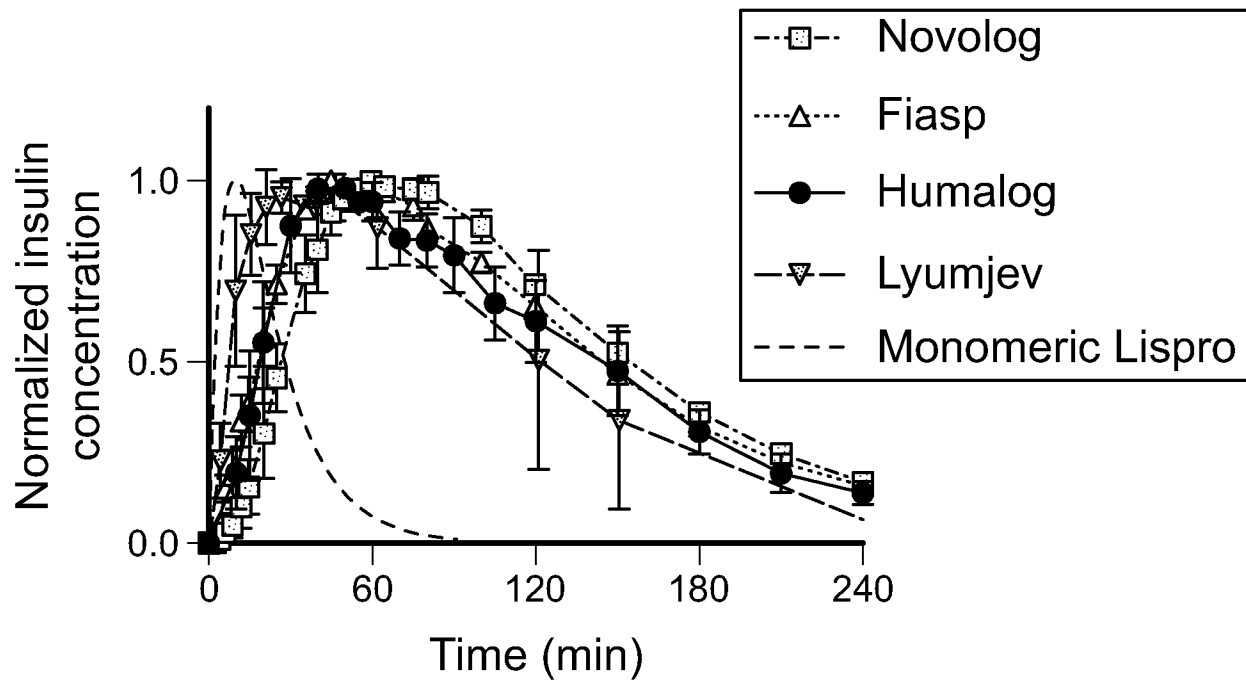


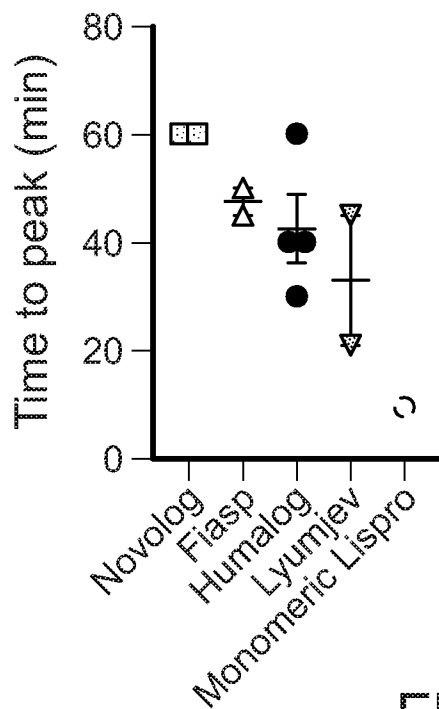
FIG. 26B

25/34

i



ii



iii

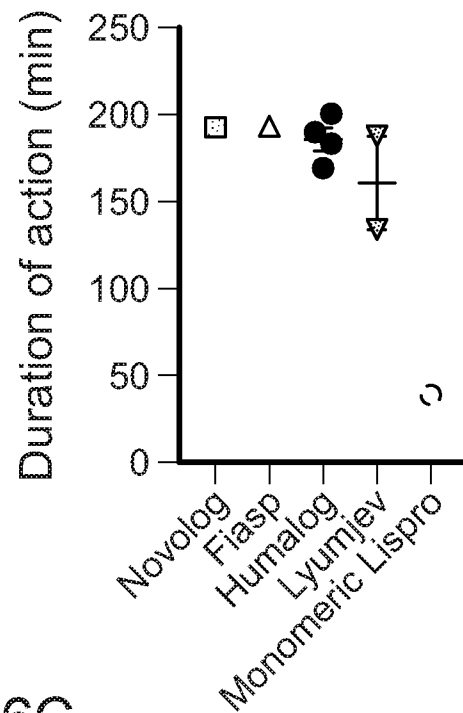


FIG. 26C

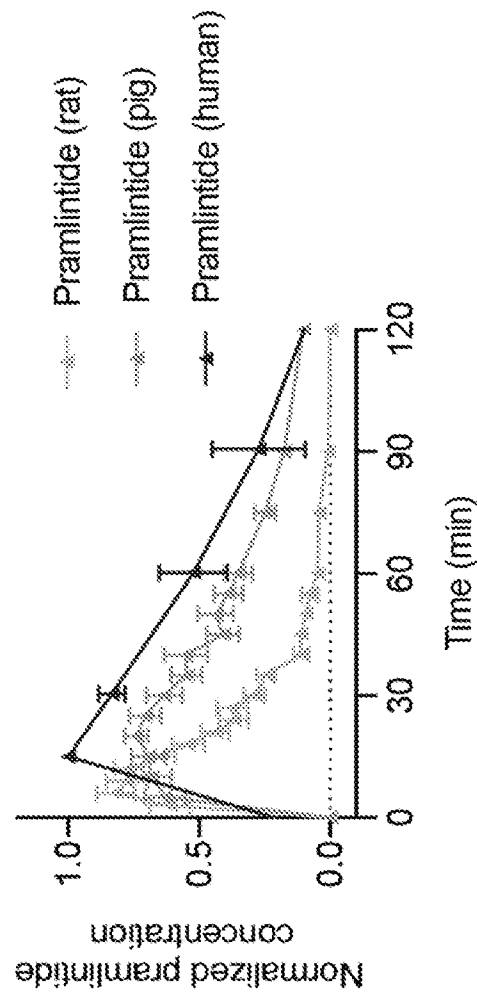


FIG. 27A

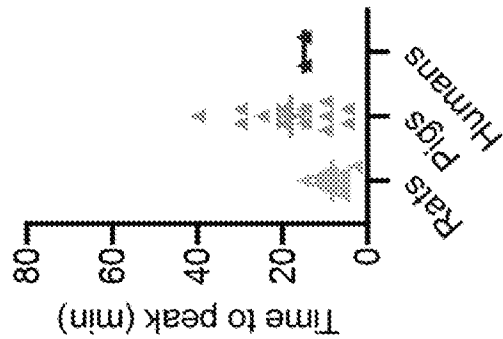


FIG. 27B

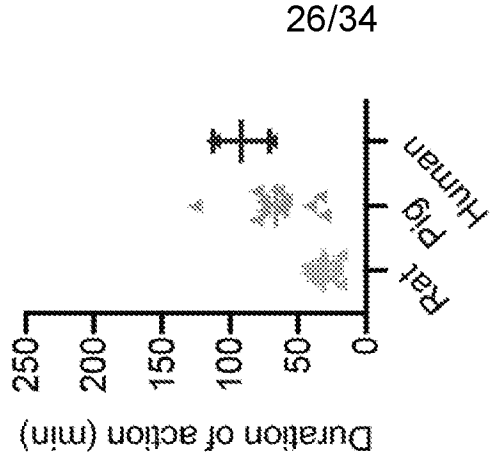
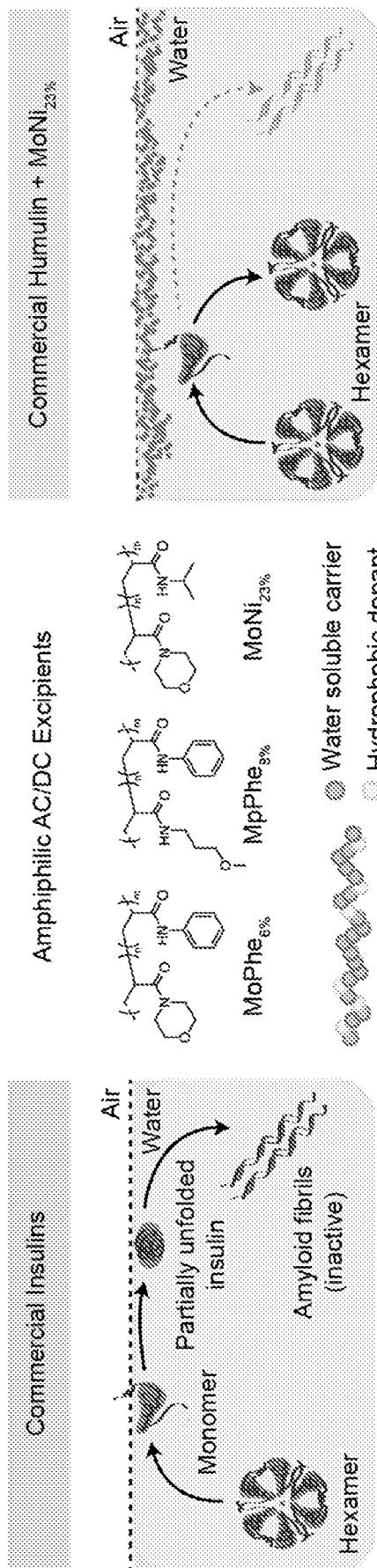


FIG. 27C



FIG. 28A



Insulin interactions at the air-water interface promote aggregation

FIG. 28B

Polymer excipients reduce surface interactions and prevent aggregation

FIG. 28D

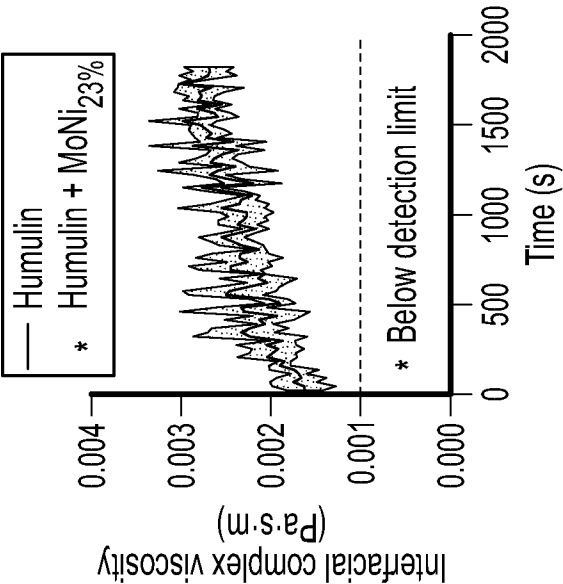


FIG. 29C

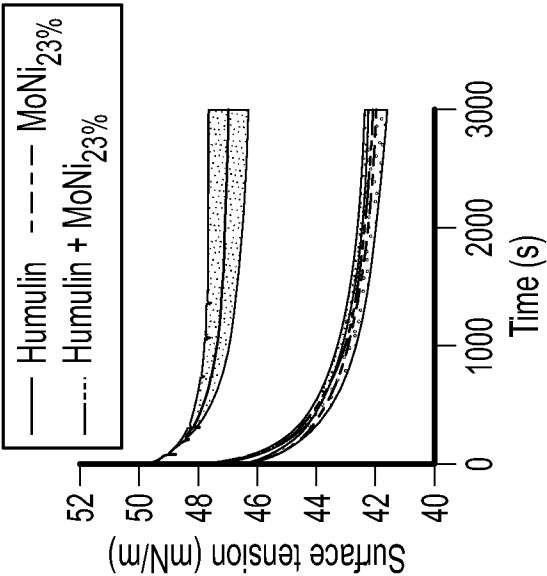


FIG. 29B

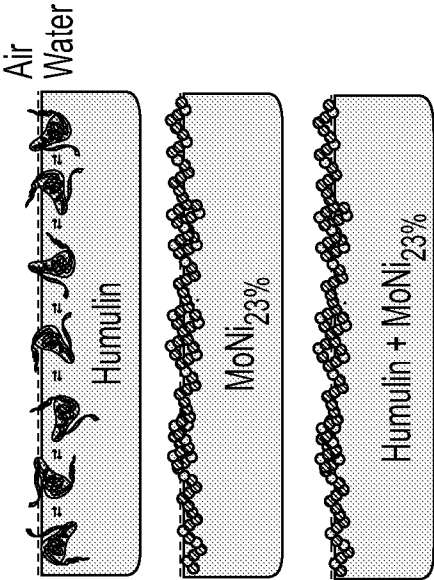


FIG. 29A

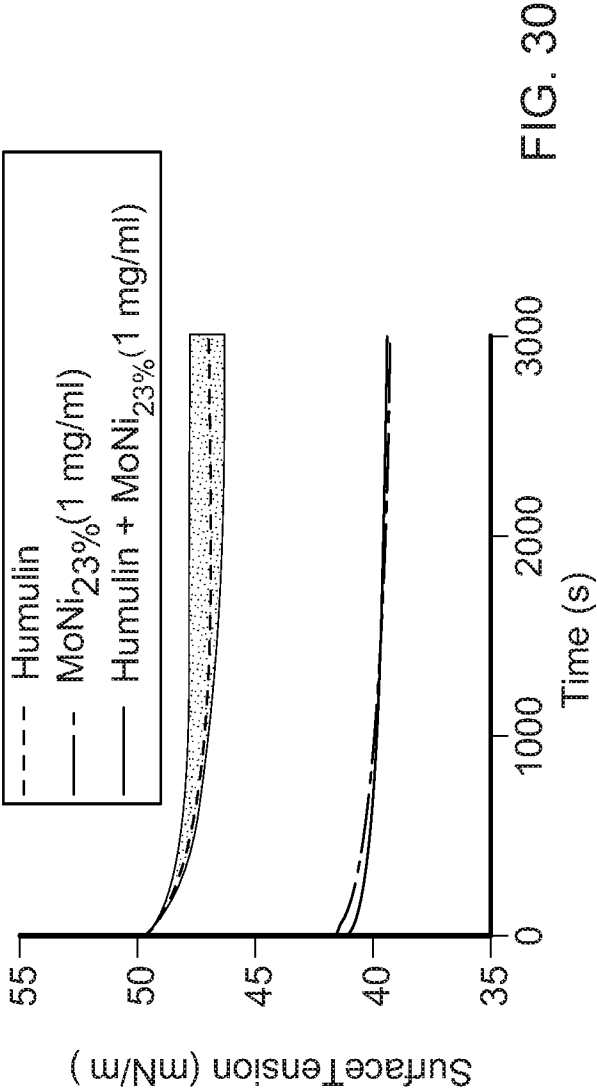
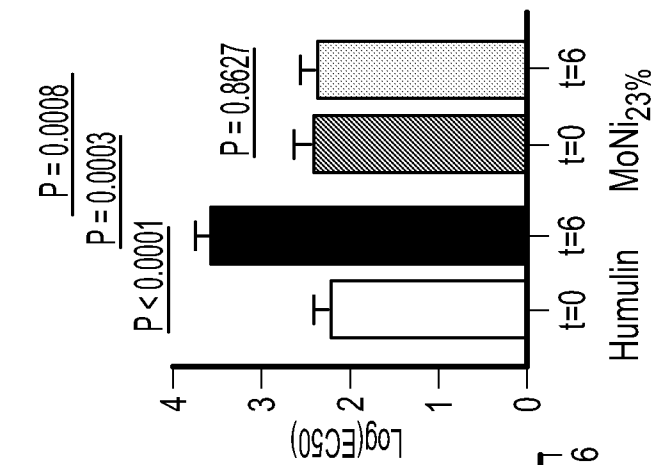
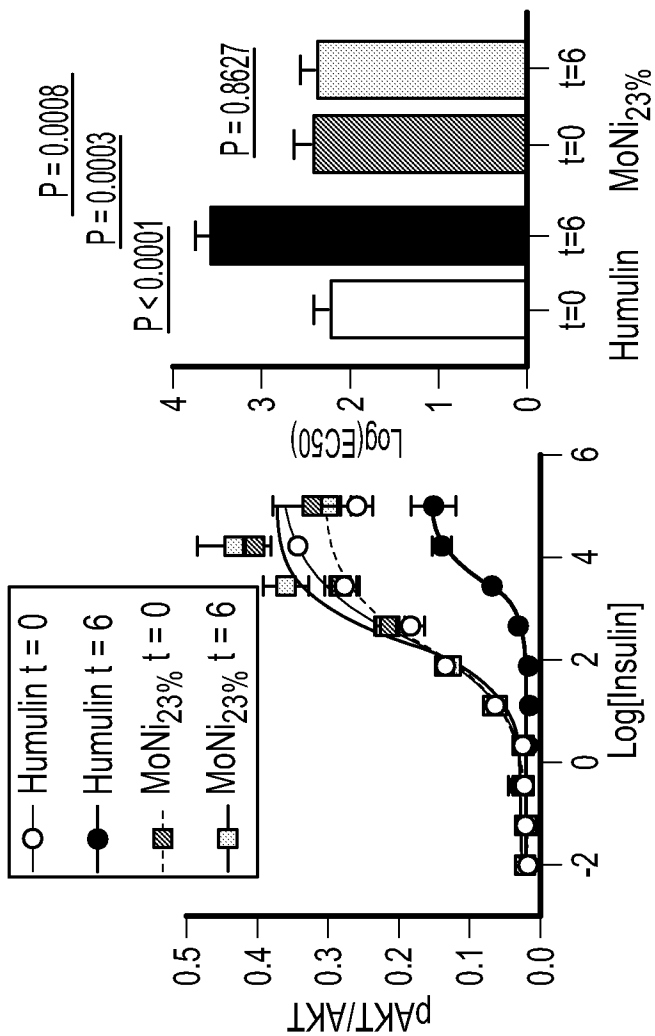
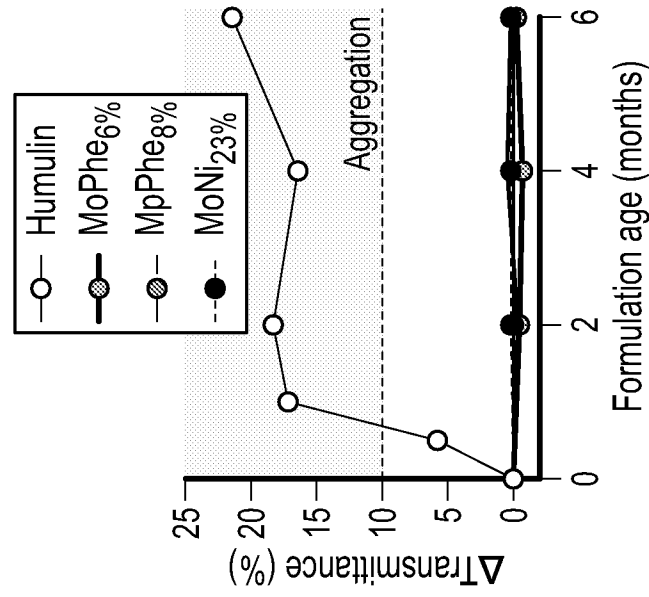
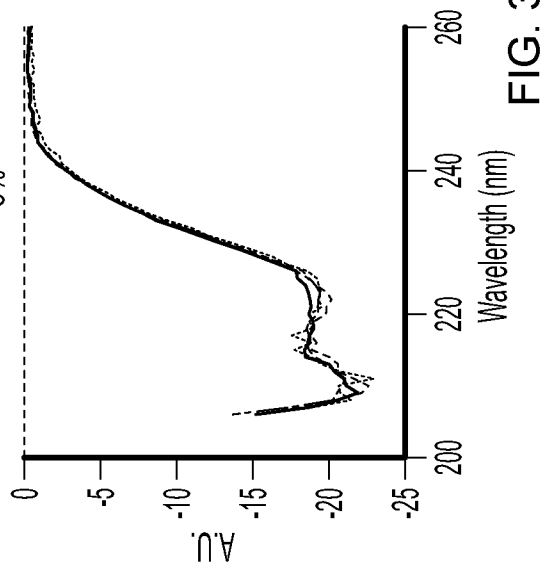
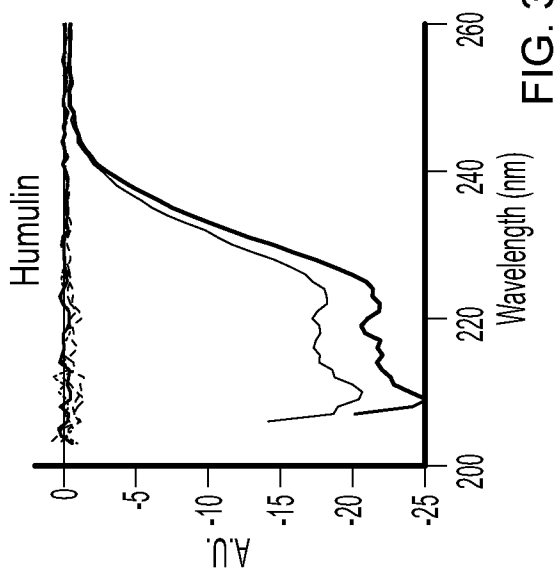


FIG. 30



29/34



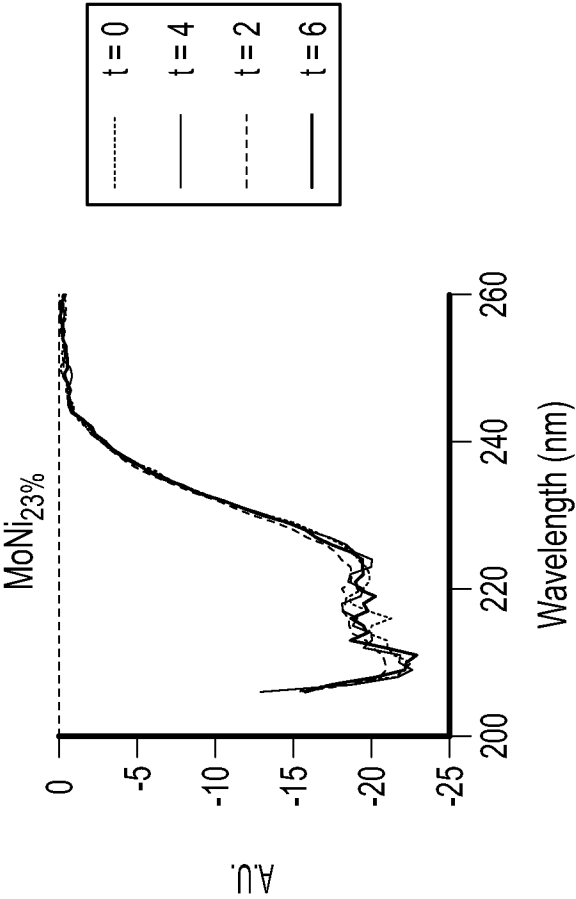


FIG. 31H

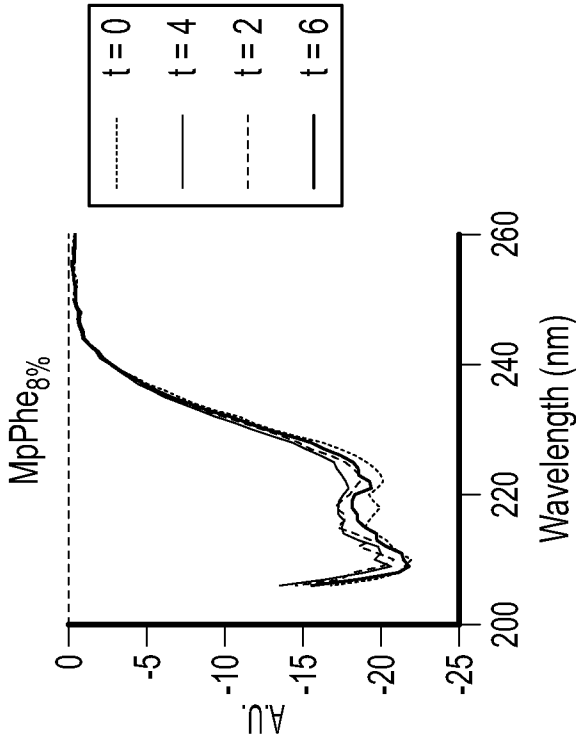


FIG. 31G

30/34

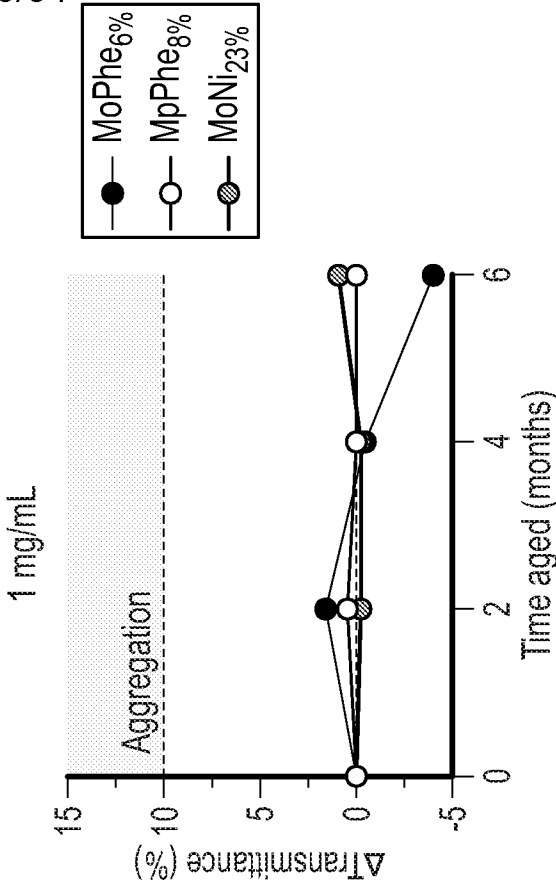


FIG. 32B

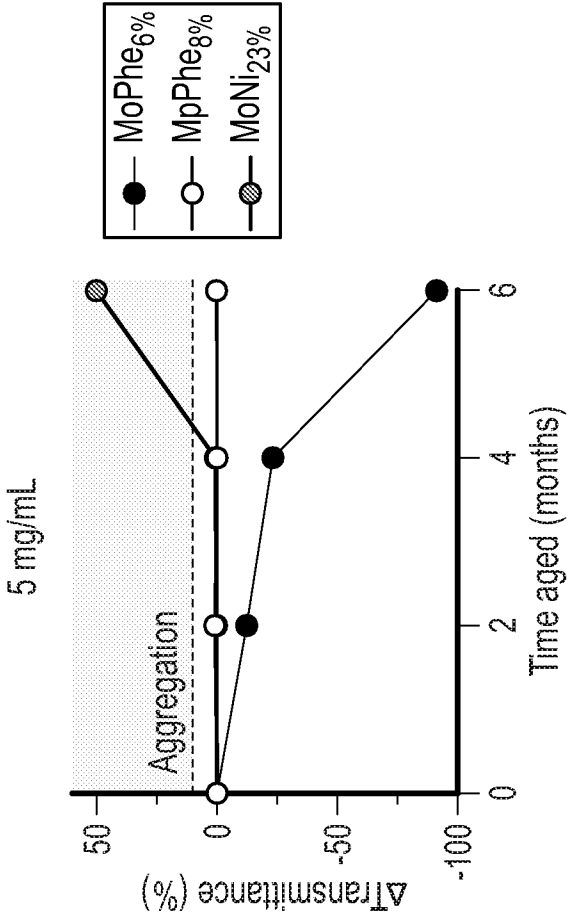
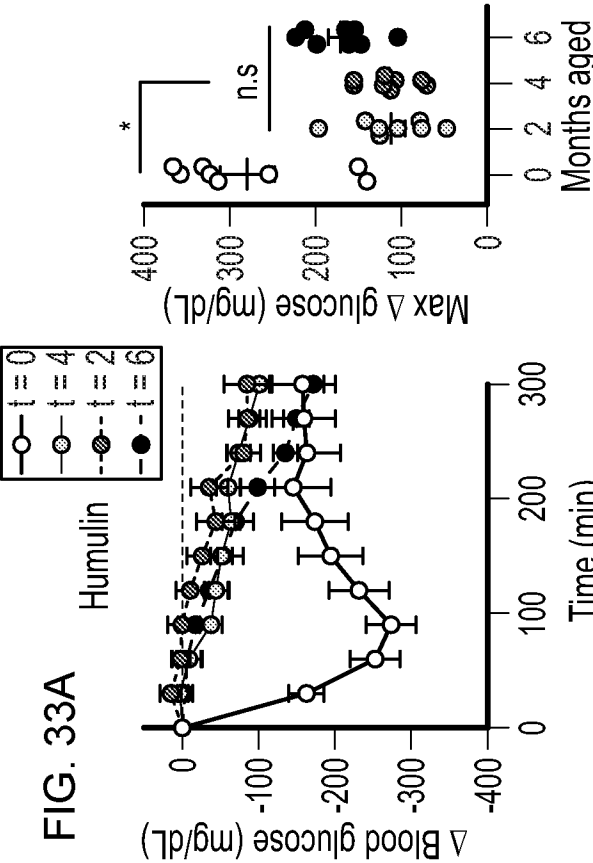
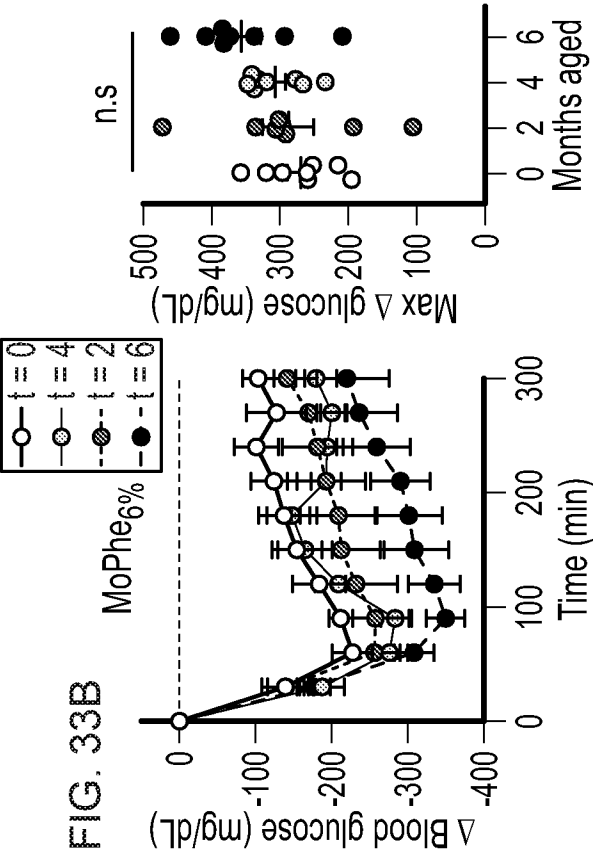


FIG. 32A



31/34

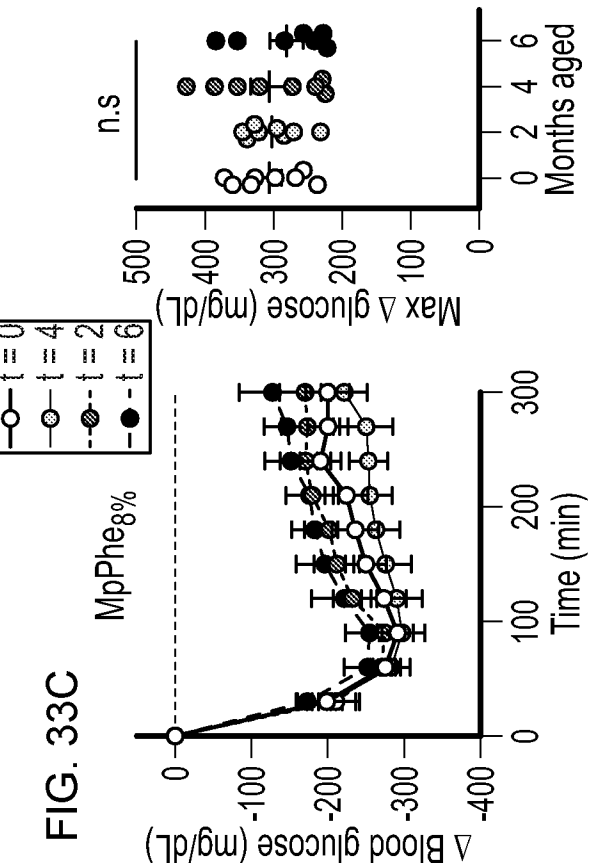
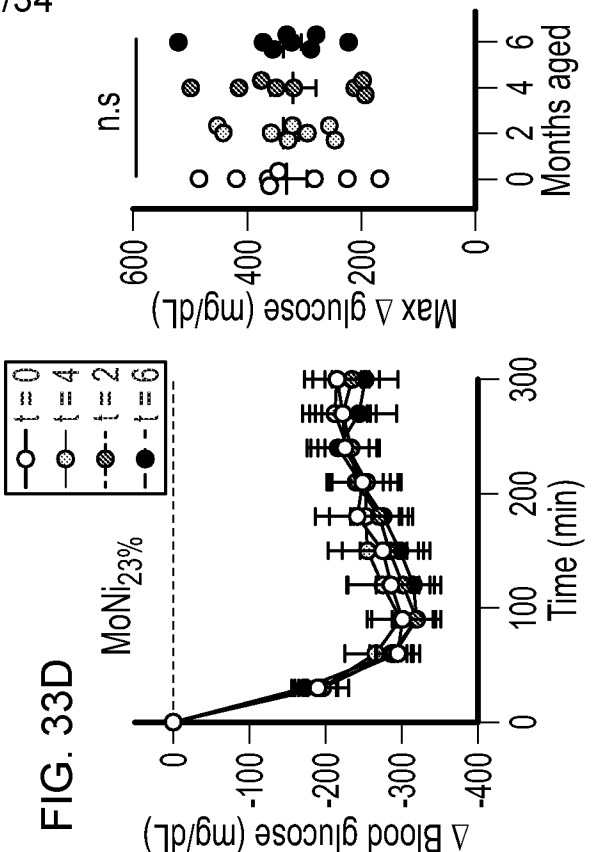


FIG. 33F

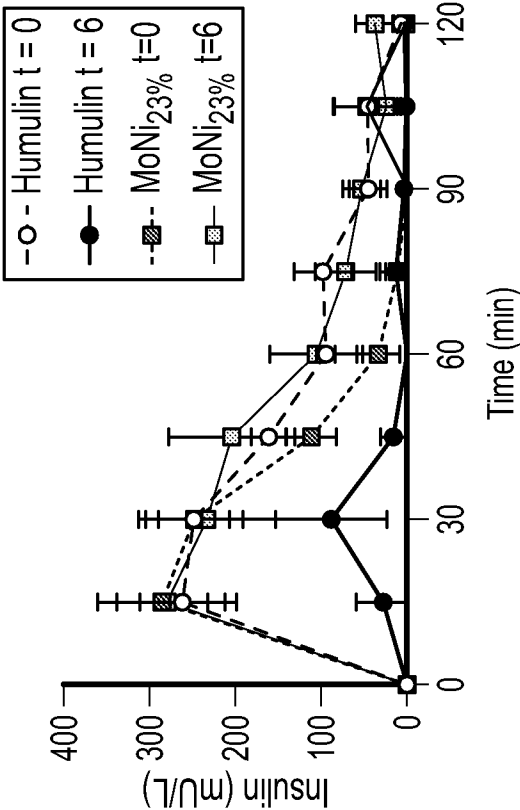
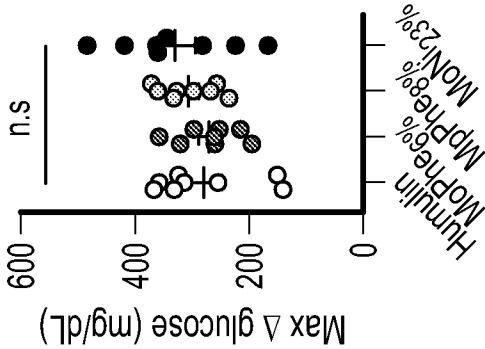
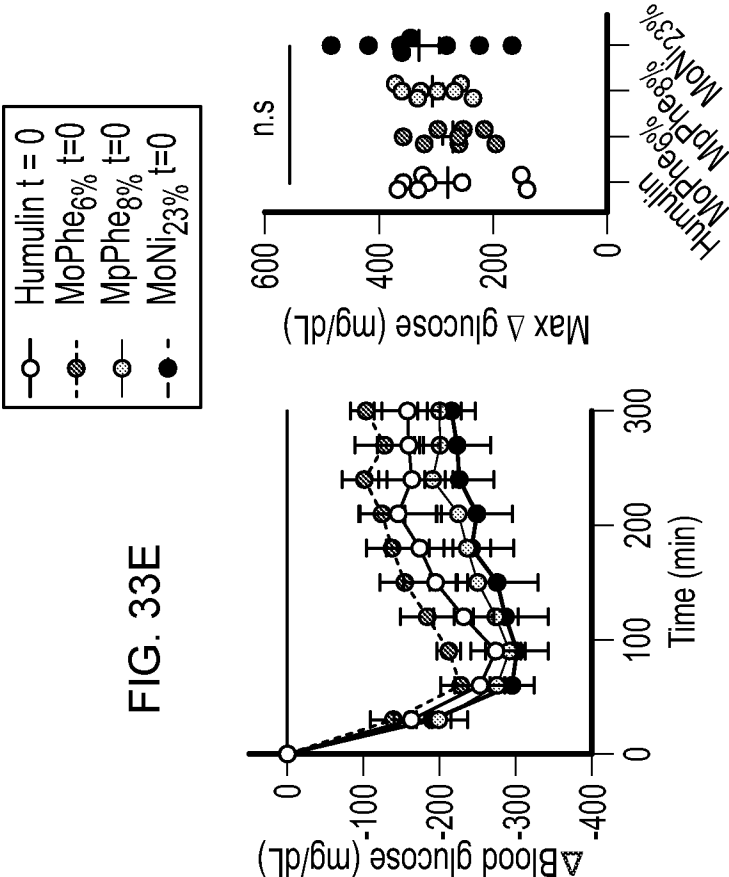


FIG. 33E



33/34

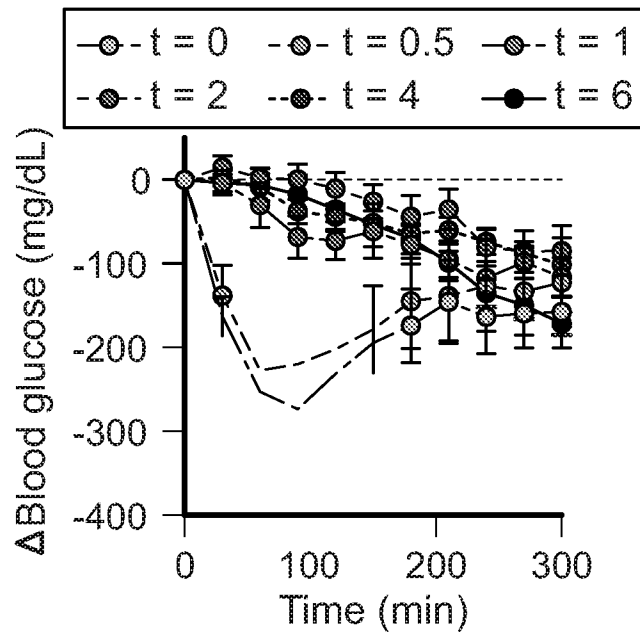


FIG. 34A

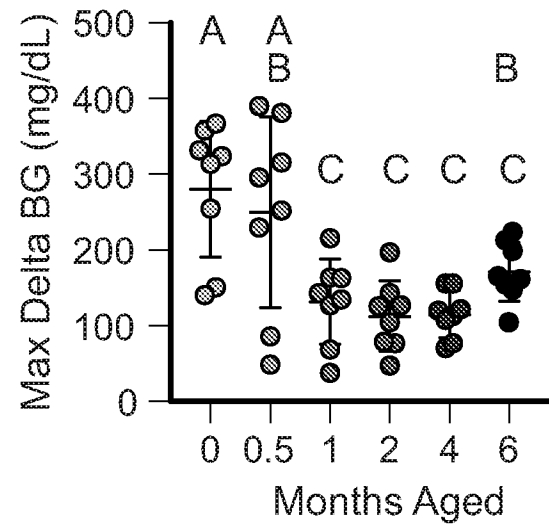


FIG. 34B

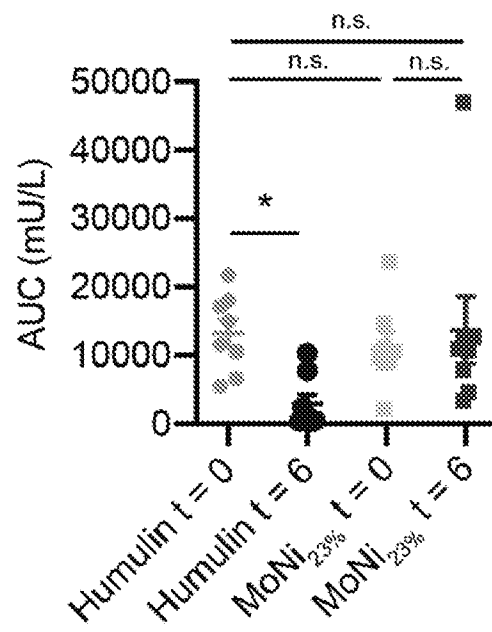


FIG. 35

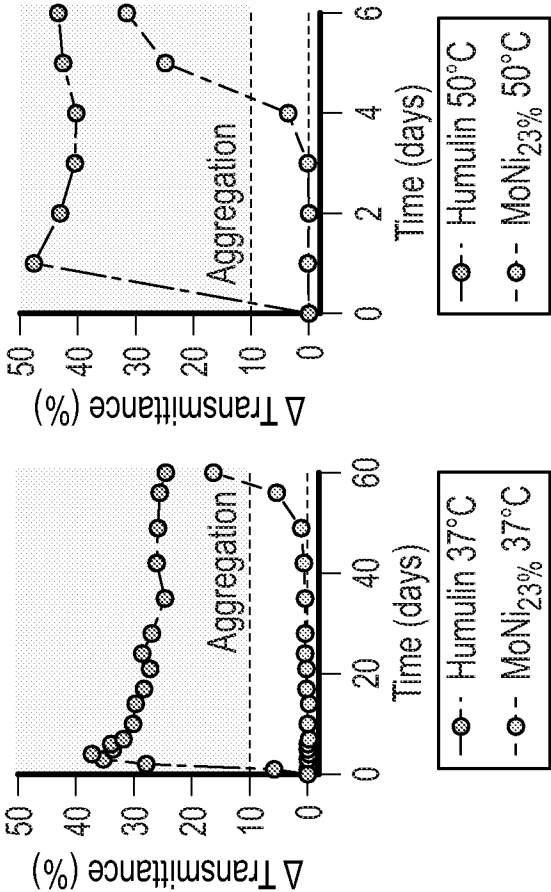
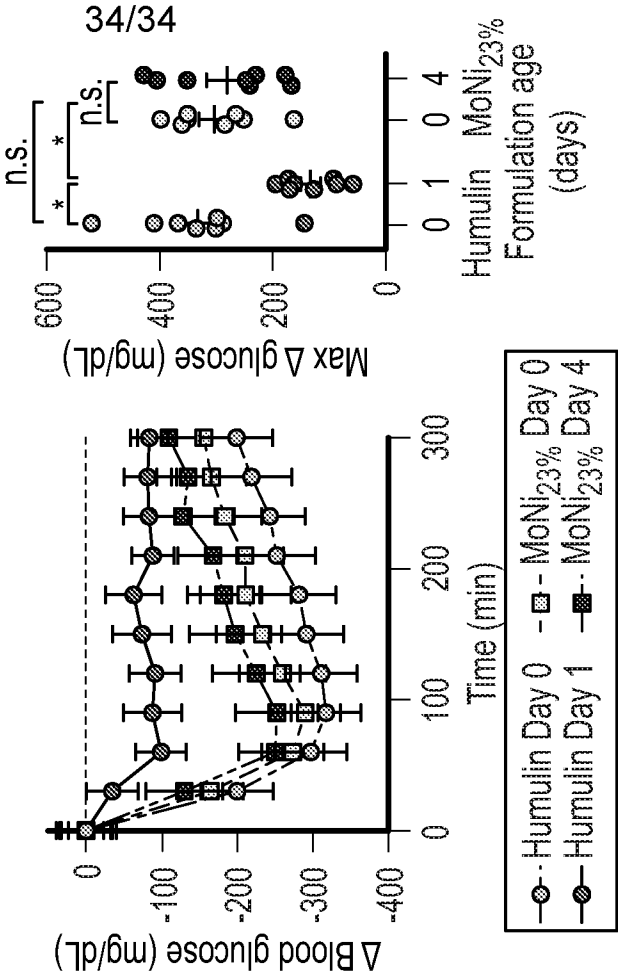
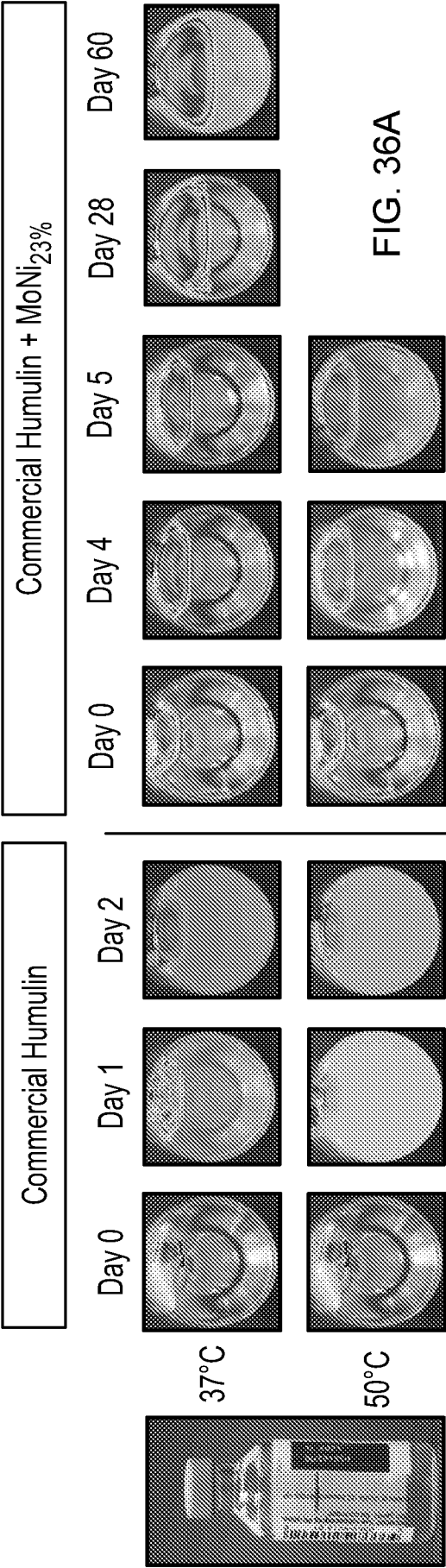


FIG. 36E

FIG. 36D

FIG. 36C

FIG. 36B