

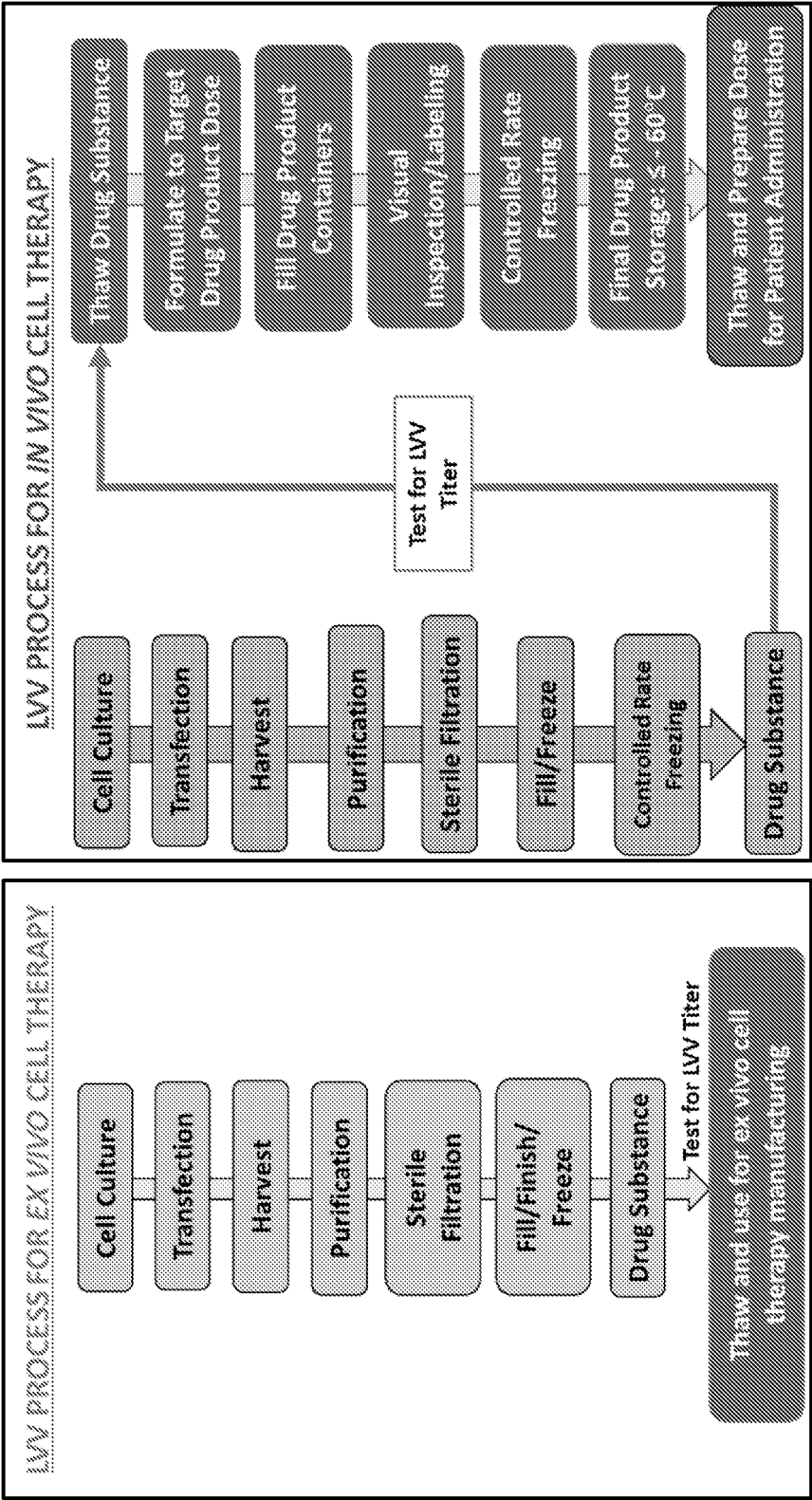


FIG. 1

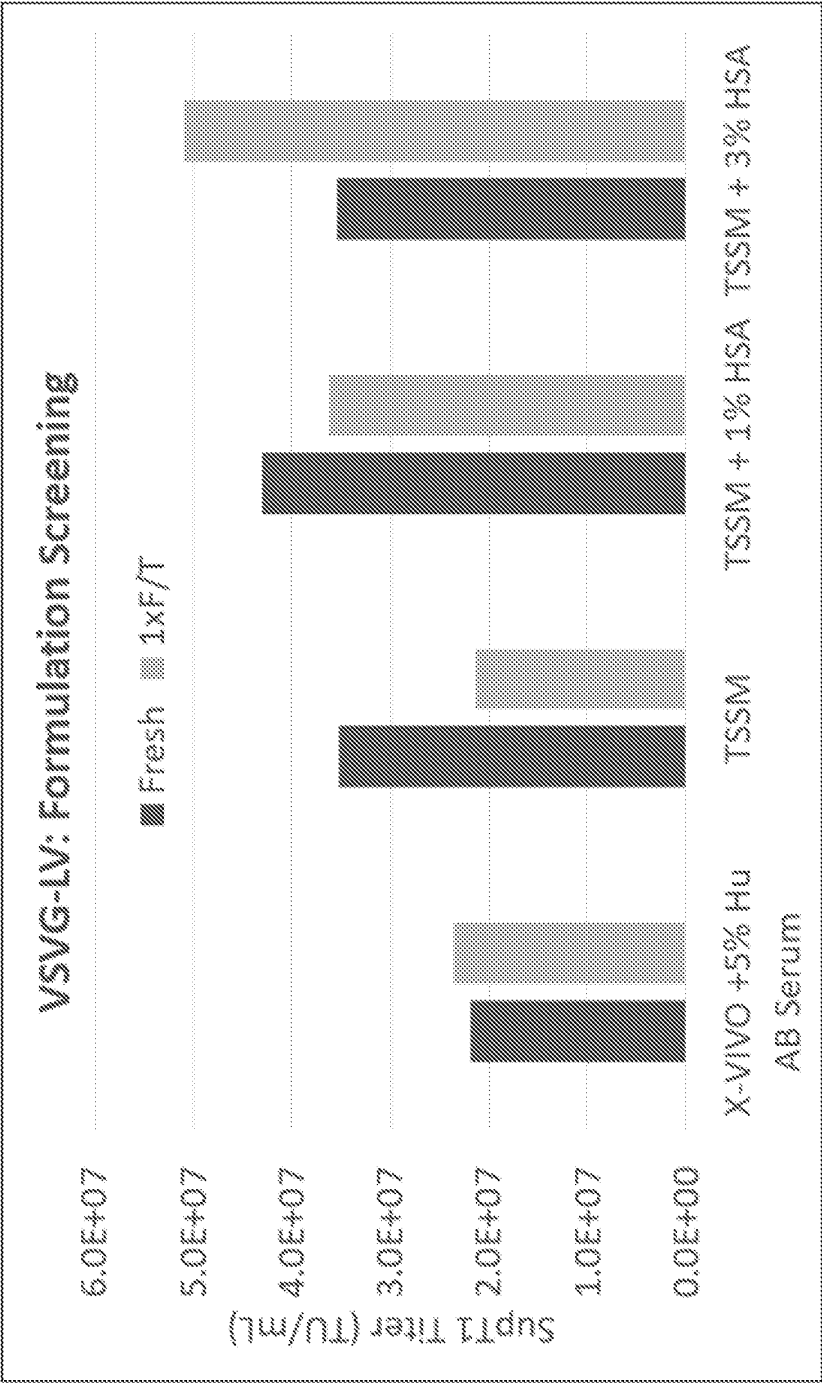


FIG. 2

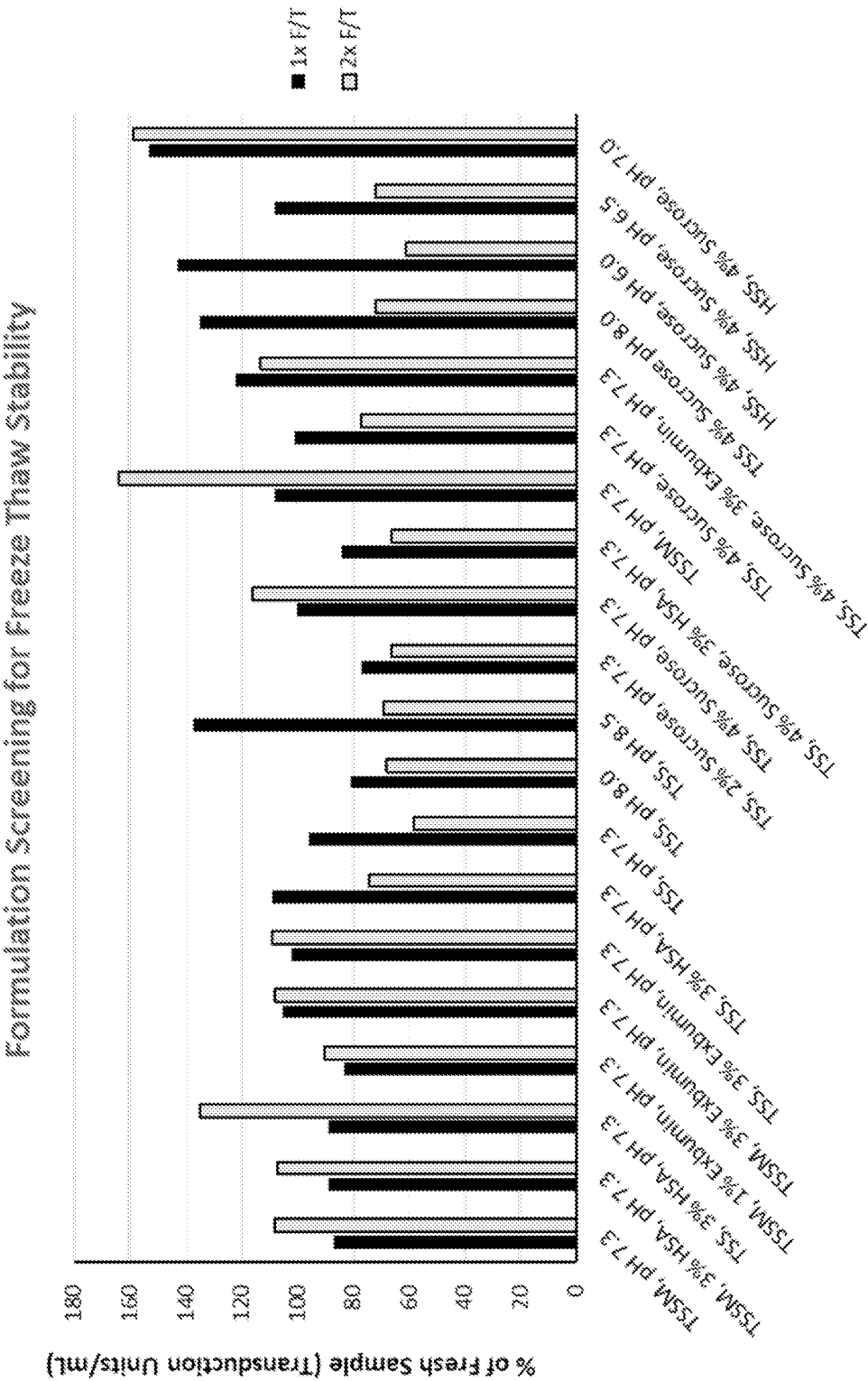


FIG. 3

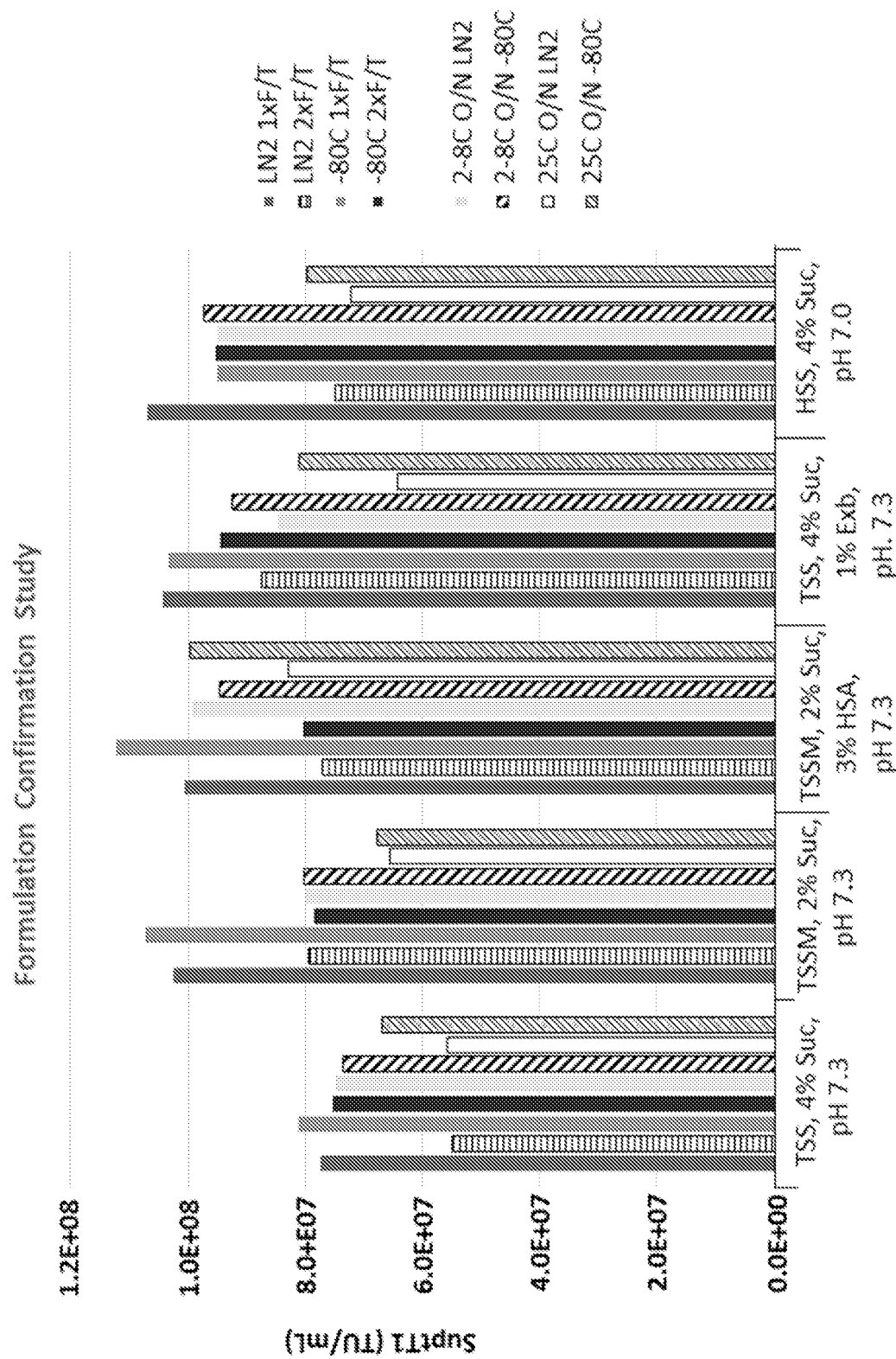


FIG. 4

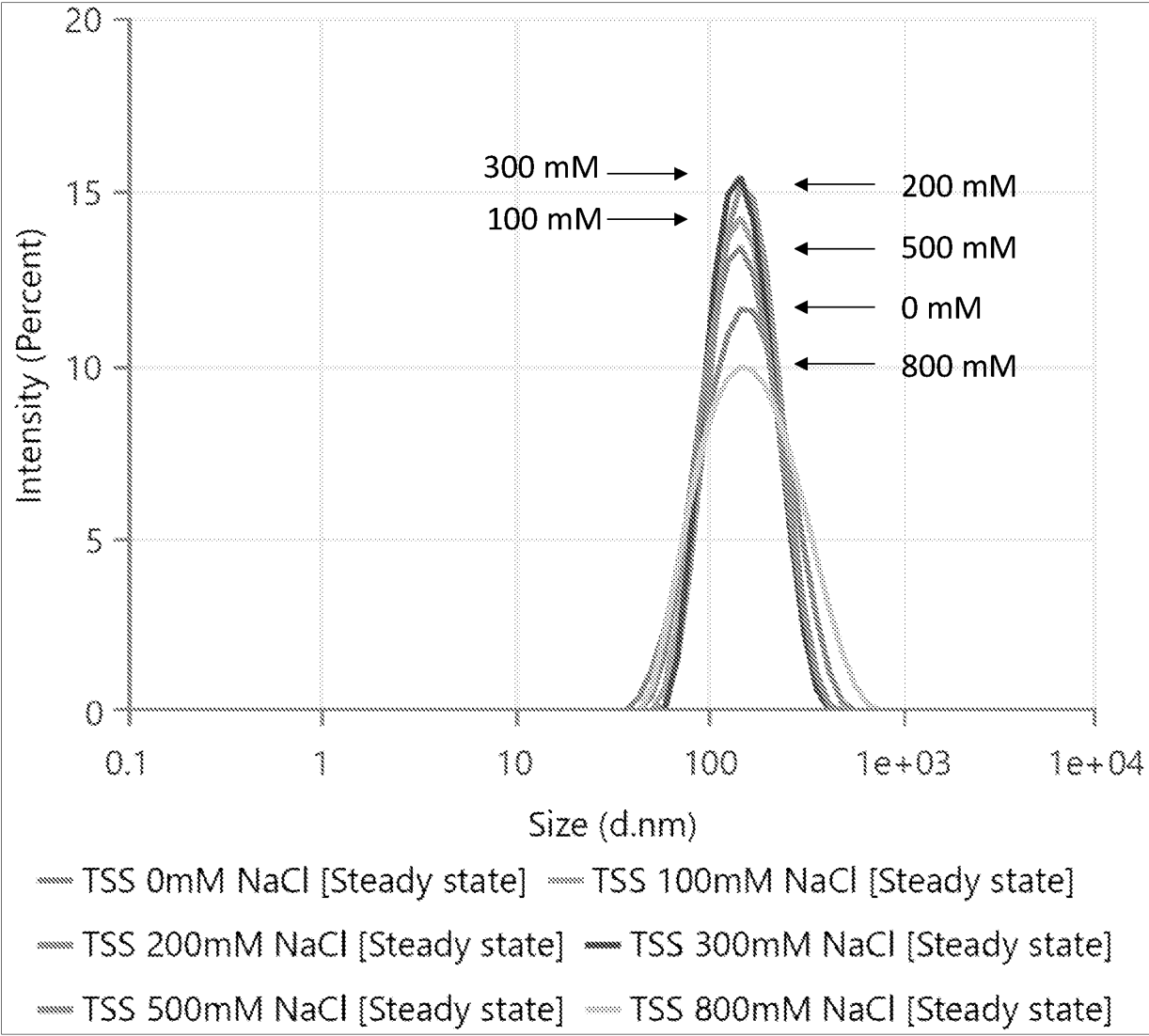


FIG. 5A

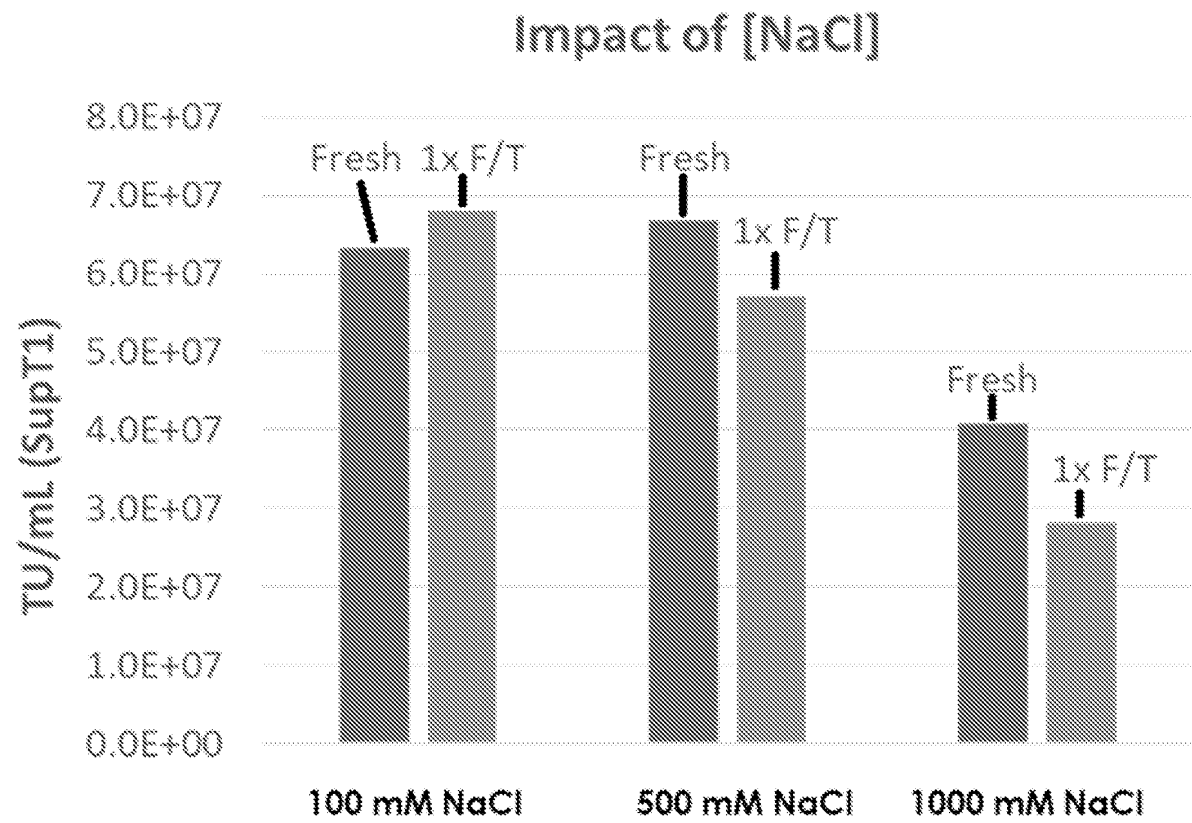


FIG. 5B

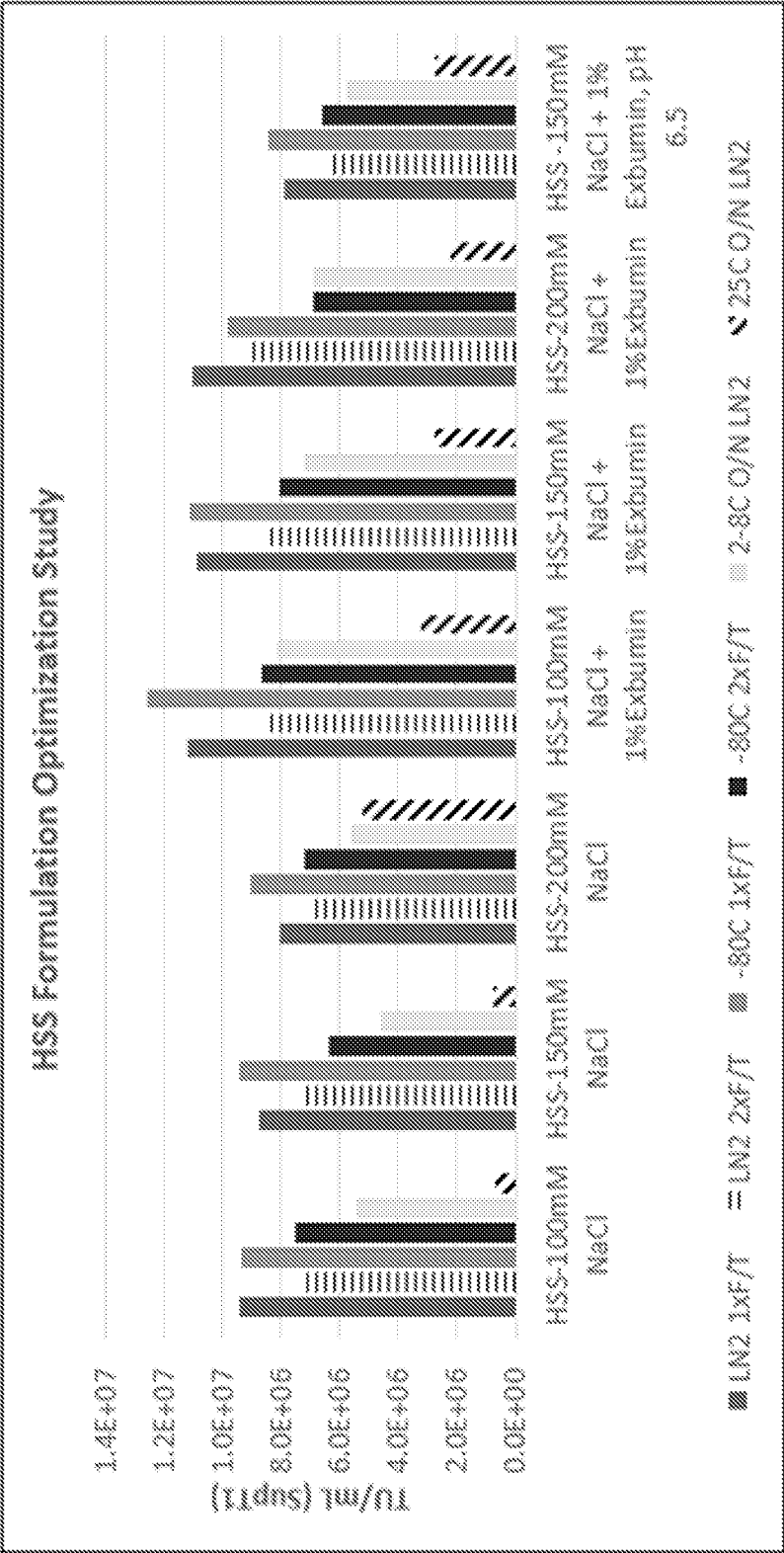


FIG. 6A

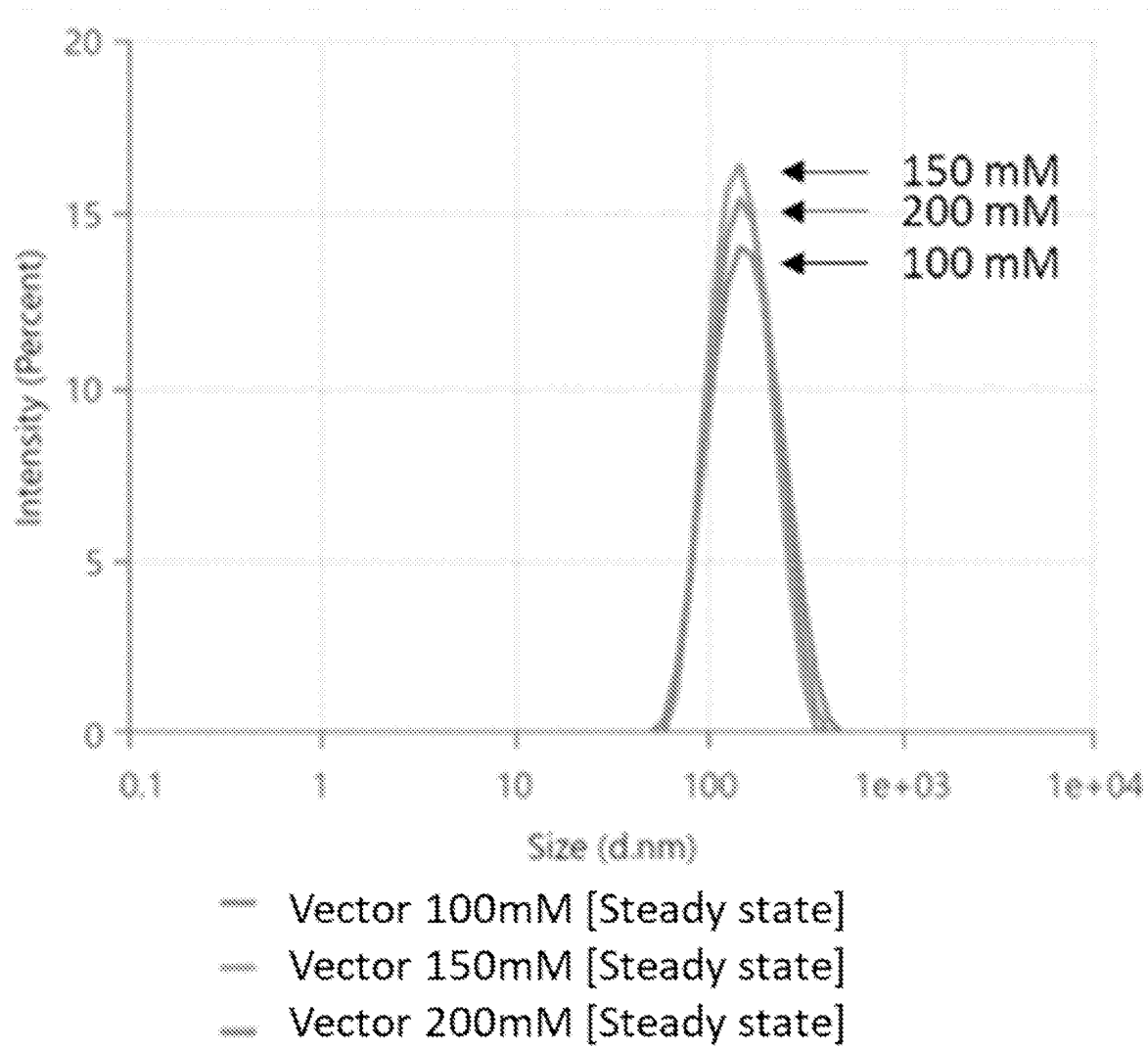


FIG. 6B

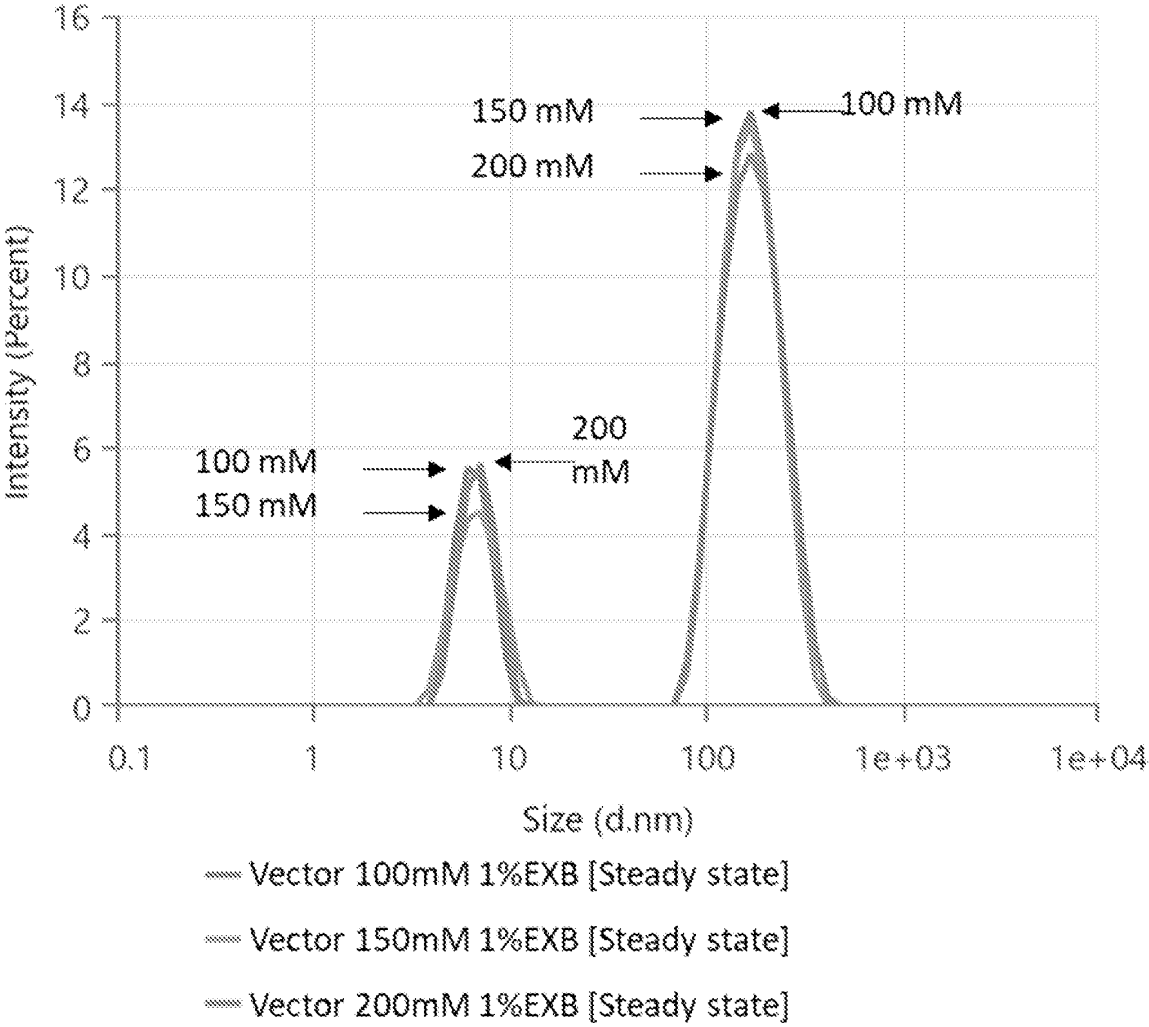


FIG. 6C

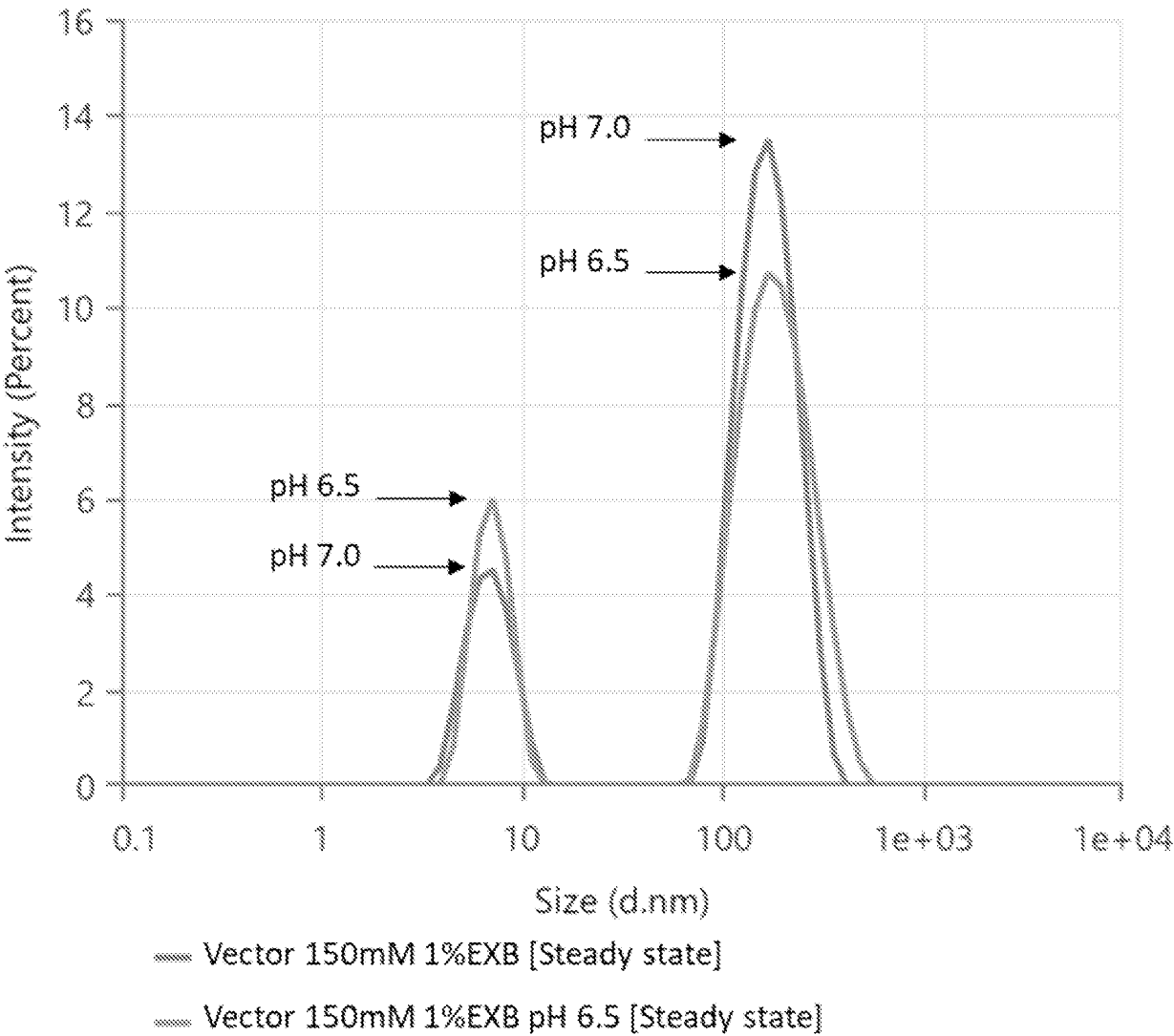


FIG. 6D

11/21

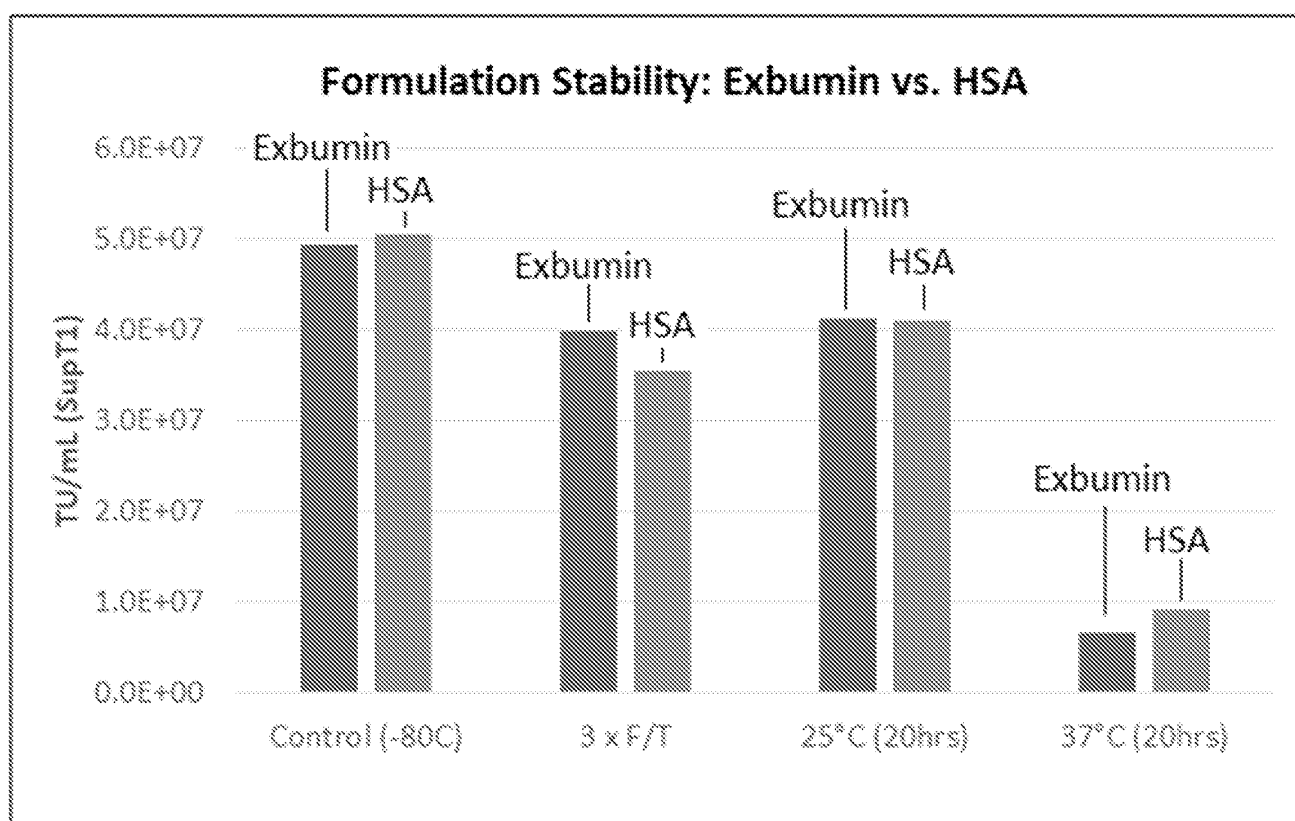


FIG. 7A

12/21

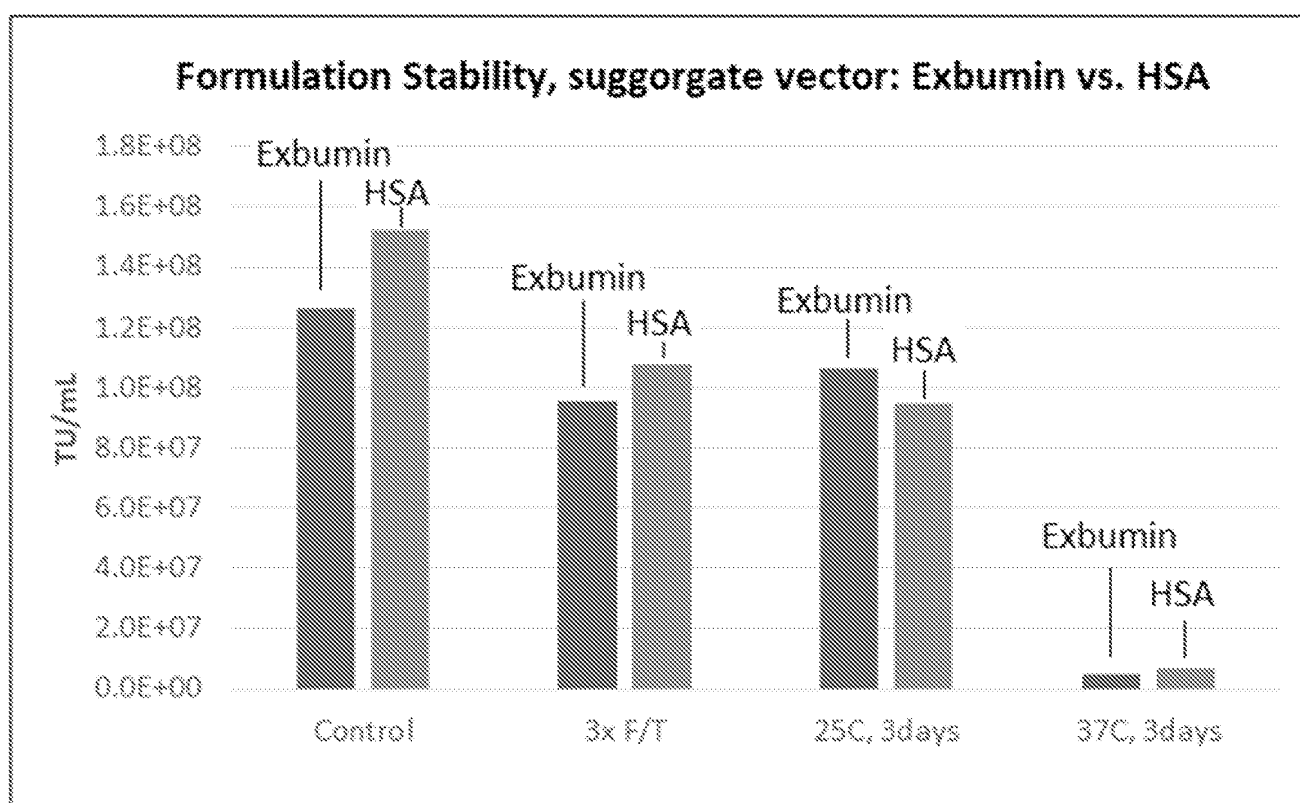


FIG. 7B

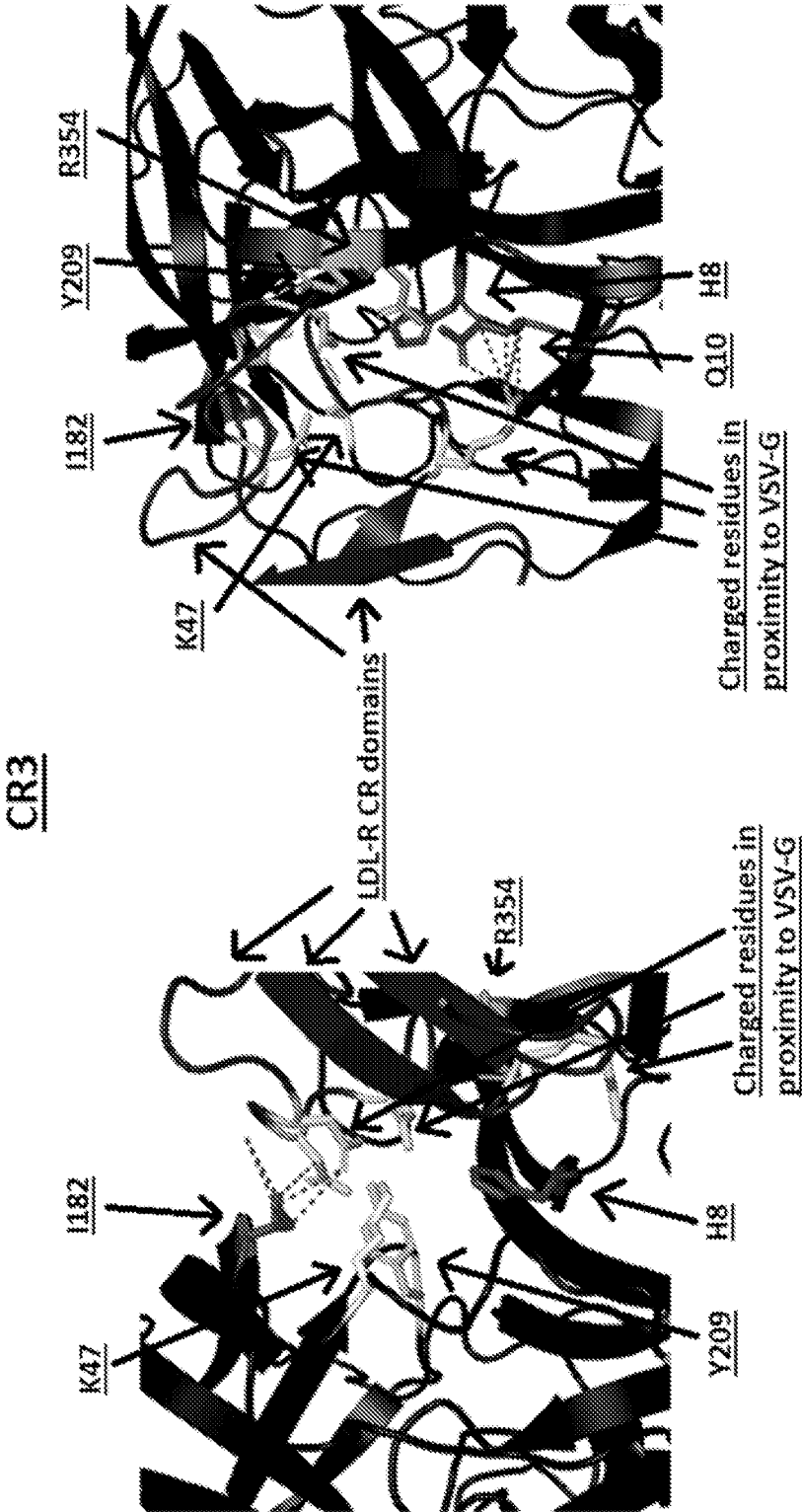


FIG. 8A

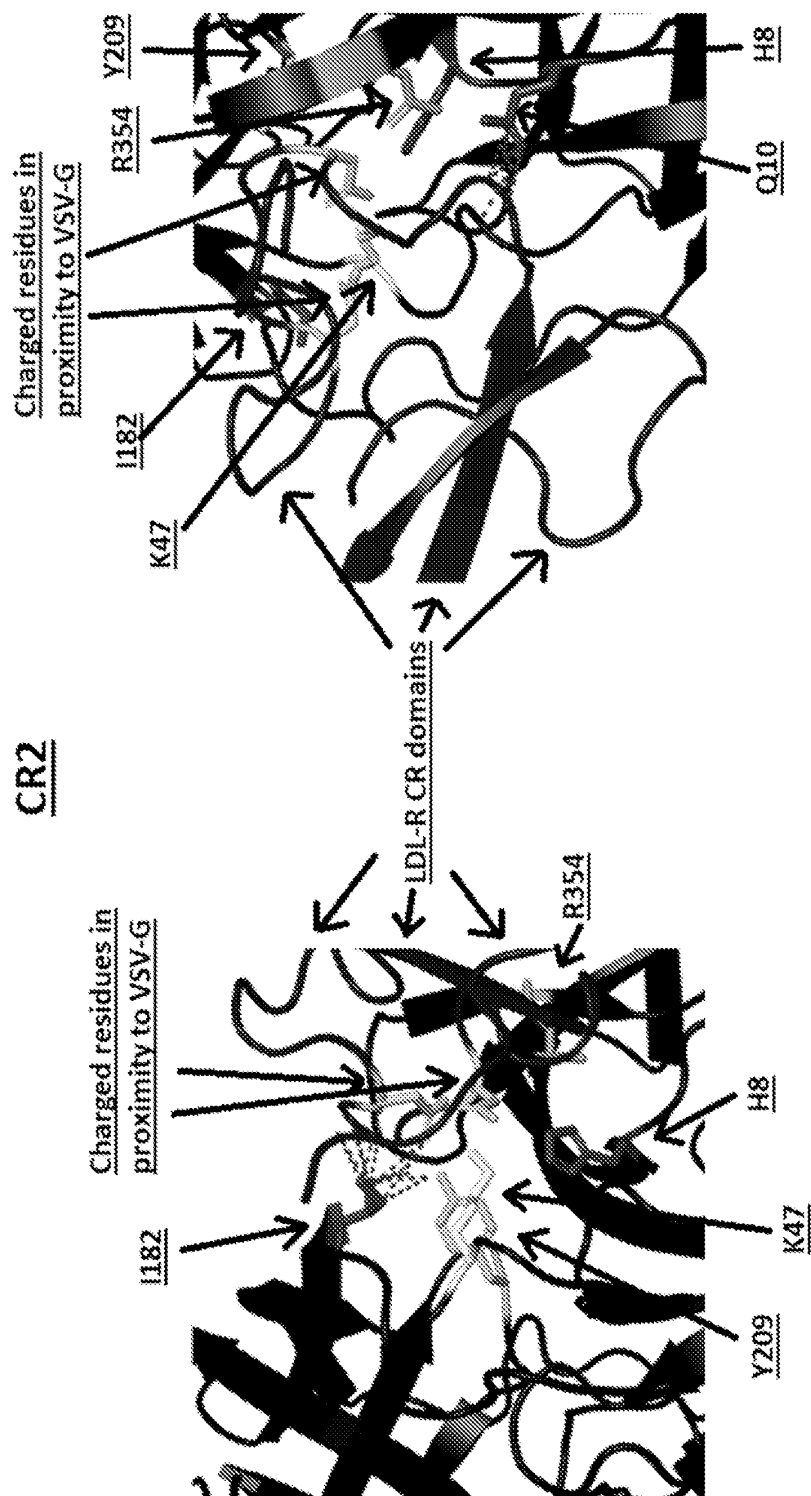


FIG. 8B

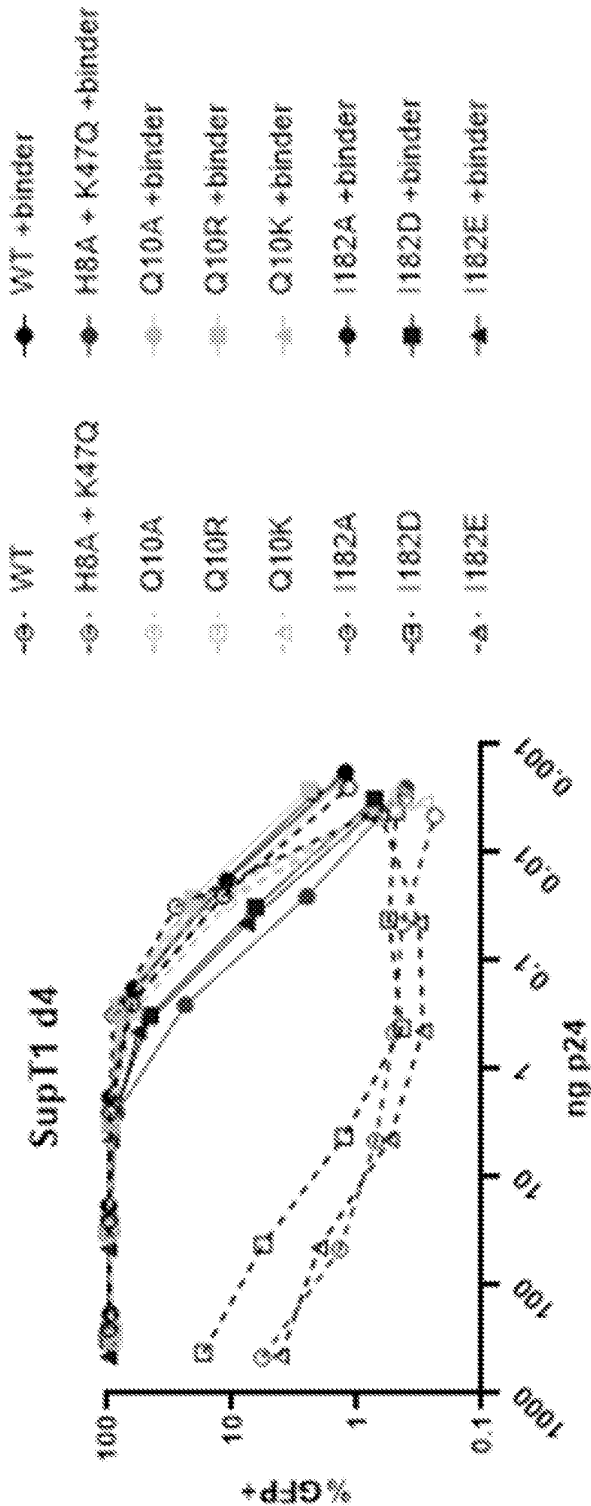


FIG. 9A

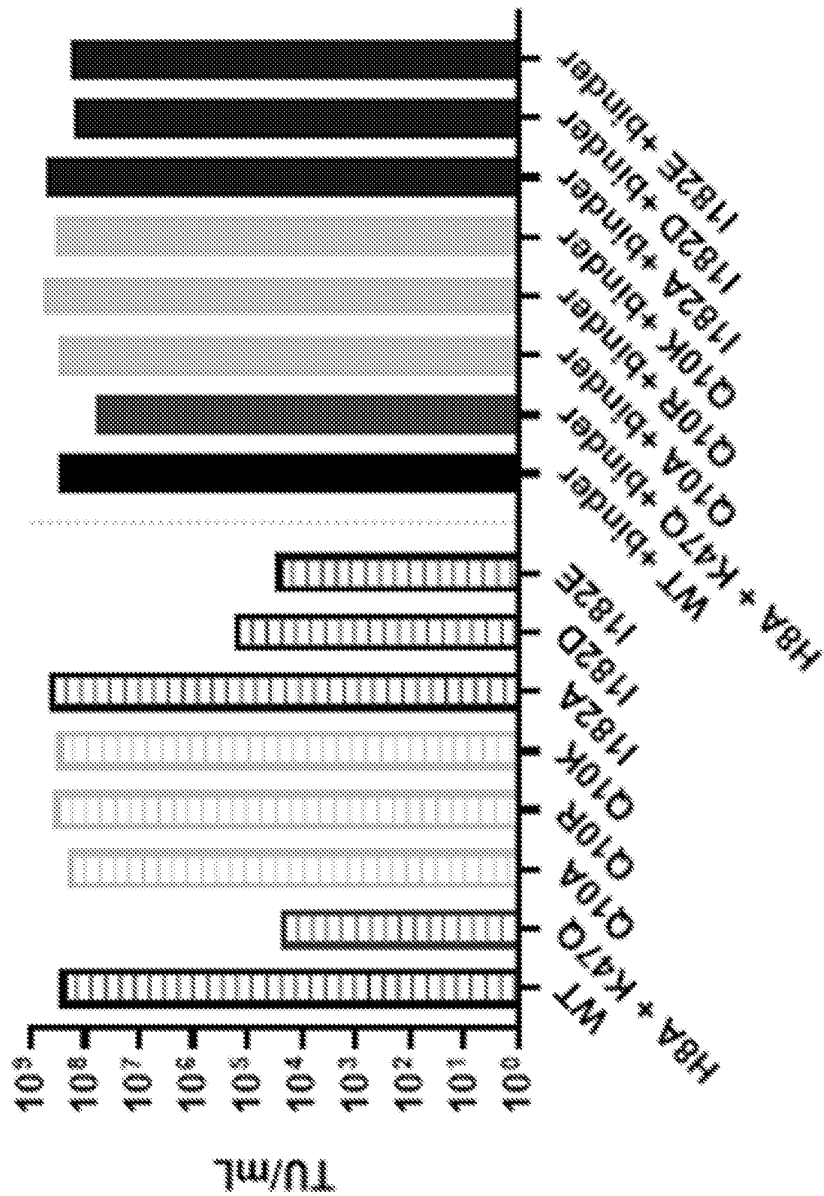


FIG. 9B

|                      |                                                                         |     |
|----------------------|-------------------------------------------------------------------------|-----|
| <u>SEQ ID NO. 2</u>  | KETIVEPHNCKGNWKNVPSNYHYCESSSDLNWHNDLIGTALQVNRKSHKAIQADGNWCH             | 60  |
| <u>SEQ ID NO. 11</u> | KIEIVEPQHTTGDMKRVHEHNYCETSADKNSHGTGTGIEVELTNEKGLTHQVDGFNCH              | 60  |
| <u>SEQ ID NO. 13</u> | KETIVEPHHCKGNWKNVPSYHYCESSSDQNWHNDLTGVSILHVKIIPKSHKAIQADGNWCH           | 60  |
| <u>SEQ ID NO. 15</u> | KITISFEQSIKGDWREVEPKGNYCPTSDADENIHGDLIDIGLIRAPKSEKGISADGNWCH            | 60  |
| <u>SEQ ID NO. 17</u> | KETIVFEQSCQKGDWKNVPEPNRYCESSADQNNHGDLLGVNIRAKMKRVHKAIRADGNWCH           | 60  |
| <u>SEQ ID NO. 19</u> | KESIVFEQSCQGNWKNVPESSYHYCESSSDQNWHNDLIGITMKVVRMEKTHKAIQADGNWCH          | 60  |
| <u>SEQ ID NO. 21</u> | KETIVEPHNCKGNWKNVPEANYCYCESSSDLNWHNGLIGTSLOVNRKSHKAIQADGNWCH            | 60  |
|                      | ↑: * **↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: * |     |
| <u>SEQ ID NO. 2</u>  | ASKWUTTCDFRNWYGPKNVITHSIRSFTPSVEQCKESIECTKQGTWINPGFEPQSCGYATVT          | 120 |
| <u>SEQ ID NO. 11</u> | SALMMTTCDFRNWYGPKNVITHSIHNEETDYQCLEAINAKVDGVSENEGFEPPQSCGYGTVT          | 120 |
| <u>SEQ ID NO. 13</u> | AAKVVTTCDFRNWYGPKNVITHSIHSMSPTEQCKTSIEQTKQGVWINPGFEPQSCGYATVT           | 120 |
| <u>SEQ ID NO. 15</u> | AAKVVTTCDFRNWYGPKNVITHSIHSEFRESNDQCKFAIRUTNEGNWINPGFEPQSCGYASVT         | 120 |
| <u>SEQ ID NO. 17</u> | AAKVVTTCDFRNWYGEQVITHSIHSEFIEKACQCEFSIKQTKEGVWINPGFEPKNCGYASVS          | 120 |
| <u>SEQ ID NO. 19</u> | AAKVVTTCDFRNWYGPKNVITHSIHSIQFTSEQCKESIKQTKQGTWINPGFEPQSCGYATVT          | 120 |
| <u>SEQ ID NO. 21</u> | AAKVVTTCDFRNWYGPKNVITHSIKSMIEFTVDQCKESIACTKQGTWINPGFEPQSCGYASVT         | 120 |
|                      | ↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *↑: *        |     |

FIG. 10A



|                     |                                                                           |     |
|---------------------|---------------------------------------------------------------------------|-----|
| <u>SEQ ID NO 2</u>  | DEDFEA-----AARECECEGSSISAEFSQTSVDVSLIQDVERILDVSLCOETWSKIRAGLP             | 296 |
| <u>SEQ ID NO 11</u> | DPDIDXTVVDLPHIKCDLSSIVTEGEHATDISLSDVERILDVSLCOETWSKIRIAGEEP               | 300 |
| <u>SEQ ID NO 13</u> | DADLEQ-----AAKIECECEGSSISAEFSQTSVDVSLIQDVERILDVSLCOETWSKIRAKLE            | 296 |
| <u>SEQ ID NO 15</u> | DAEKSHKAQVELKIKRCEHGAVISAEFNQNAADINLINDVERILDVSLCOATWSKIQNKEA             | 300 |
| <u>SEQ ID NO 17</u> | DDEILE-----SVQMECECPAGLTISAEFTQTSVDVSLILDVERMILDVSLCOETWSKVHSGLE          | 296 |
| <u>SEQ ID NO 19</u> | DQDQVYA-----AAKIECECEGSSISAEFTQTSVDVSLILDVERILDVSLCOETWSKIRSKQR           | 296 |
| <u>SEQ ID NO 21</u> | DEDLYN-----DAKEDCECEGSSISAEFSQTSVDVSLIQDVERILDVSLCOETWSKIRAHLP            | 296 |
|                     | * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * |     |
| <u>SEQ ID NO 2</u>  | ISEVDLSYLAPEKNPGTGPAFTIINGTLKYFETRYIRVDIAAPILSRMVGMIISGTTTEREL            | 356 |
| <u>SEQ ID NO 11</u> | ITEVDLSYLGEPKNEGAGPVFTIINGSLHYFMSKYLKRVLESEPVIFEMEGKVAGTRIVRQL            | 360 |
| <u>SEQ ID NO 13</u> | VSEVDLSYLAPEKNPGSGPAFTIINGTLKYFETRYIRVDISNEPIIRPMVGTMSGTTTEREL            | 356 |
| <u>SEQ ID NO 15</u> | ITRIDISYLGPKNECEGPAFTIINGTLHYENTRYIRVDIAGEVTKETGCEVSGTSTSRVL              | 360 |
| <u>SEQ ID NO 17</u> | ISEVDLGILAEKNPGAGPAFTIINGTLKYFEDRYLRIDIDIEGEULKMMTGKUSGPTPKREL            | 356 |
| <u>SEQ ID NO 19</u> | VSEVDLSYLAPEKNPGTGPAFTIINGTLKYFETRYIRIDIDINEPIISRMVGKISSSQTEREL           | 356 |
| <u>SEQ ID NO 21</u> | ISEVDLSYLSPEKNPGTGPAFTIINGTLKYFETRYIRVDIAGRIIEPMRGVVISGTTTEREL            | 356 |
|                     | ::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*::*        |     |

FIG. 10C



|                     |                                  |     |
|---------------------|----------------------------------|-----|
| <u>SEQ ID NO 2</u>  | <u>IKLKHTK-KRQIYTDIEMNRLGK--</u> | 495 |
| <u>SEQ ID NO 11</u> | <u>-SLFRQKRRPIYKSDVEMAHFR---</u> | 501 |
| <u>SEQ ID NO 13</u> | <u>YKYKG-RKTQKIYNDVEMSRLGNK-</u> | 496 |
| <u>SEQ ID NO 15</u> | <u>YCCVRHKKRTIYKEDLEMGRIPBRA</u> | 502 |
| <u>SEQ ID NO 17</u> | <u>H--FCCQKRHKIYNDLEMNQLRR--</u> | 494 |
| <u>SEQ ID NO 19</u> | <u>YRYQGSN-NKRIYNDIEMSRFRK--</u> | 495 |
| <u>SEQ ID NO 21</u> | <u>IKCRVQEKRPKIYTDVEMNRLDR--</u> | 496 |
|                     | .                   *:*:*   ::   |     |

FIG. 10E