

FIG. 1

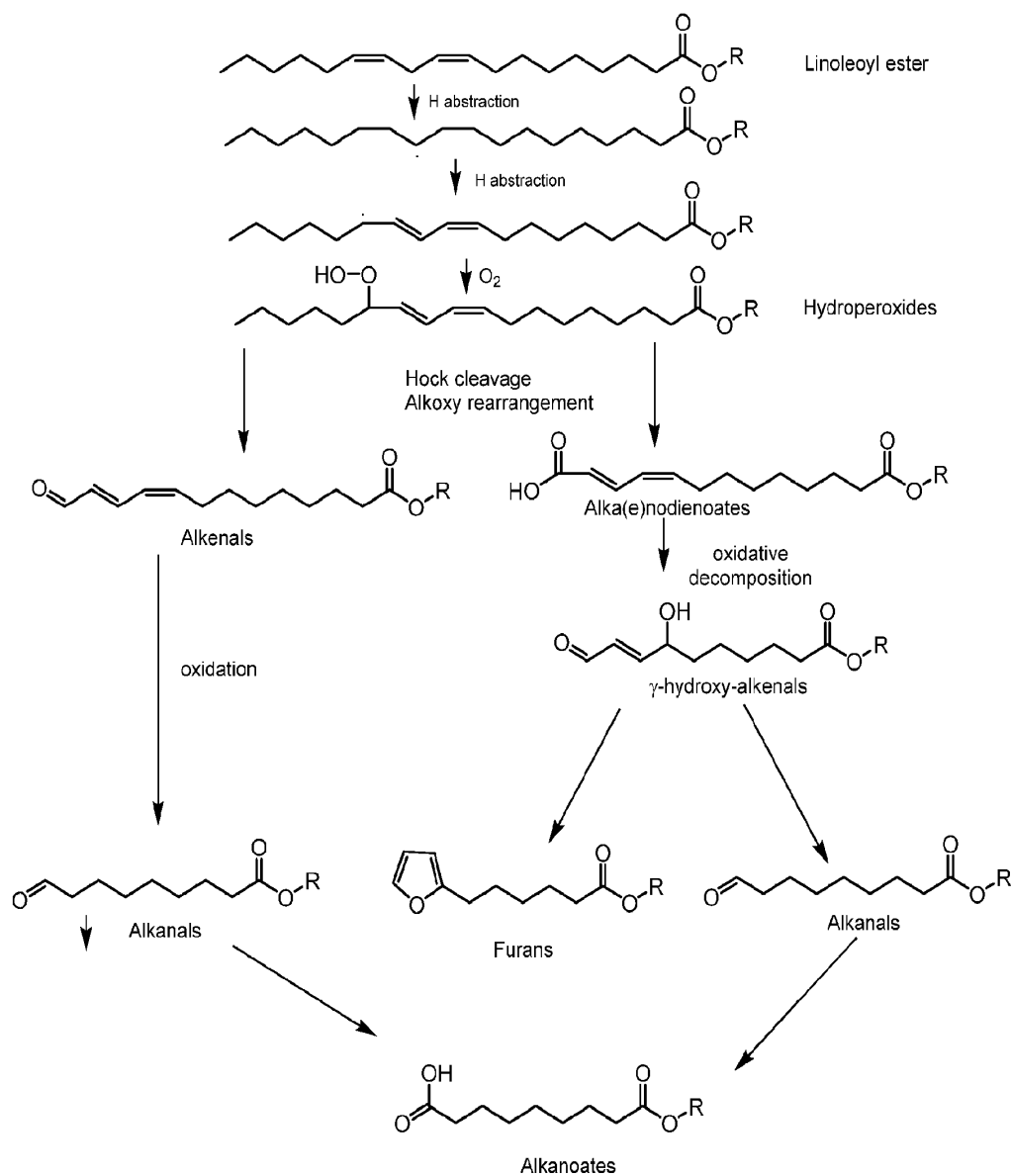


FIG. 2

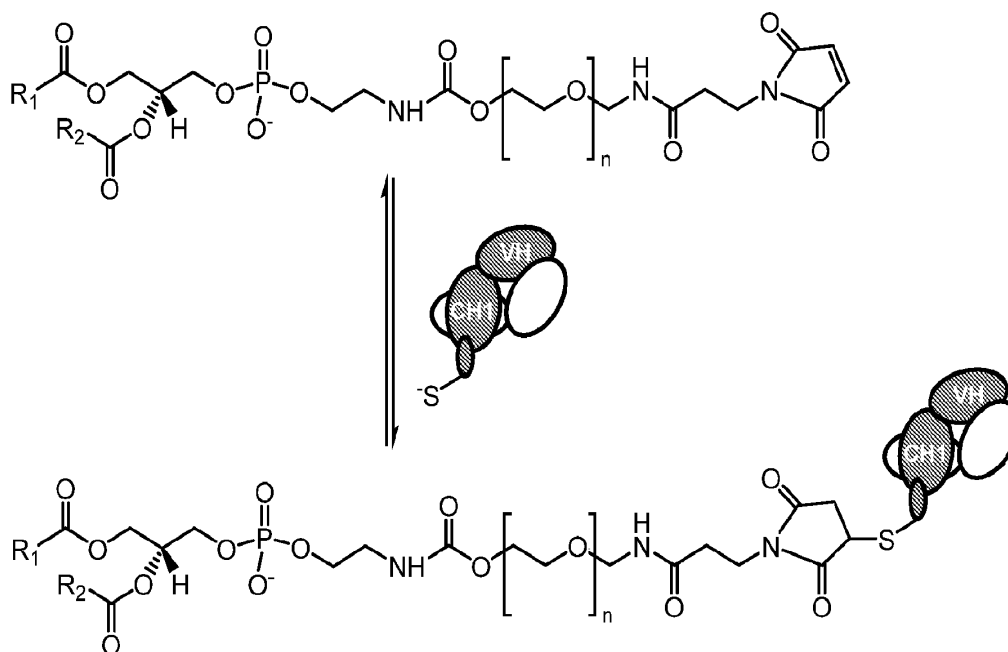


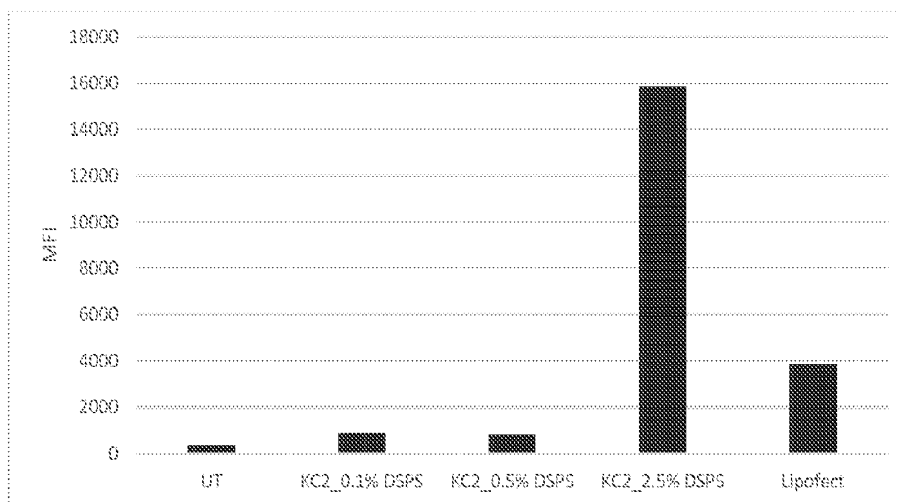
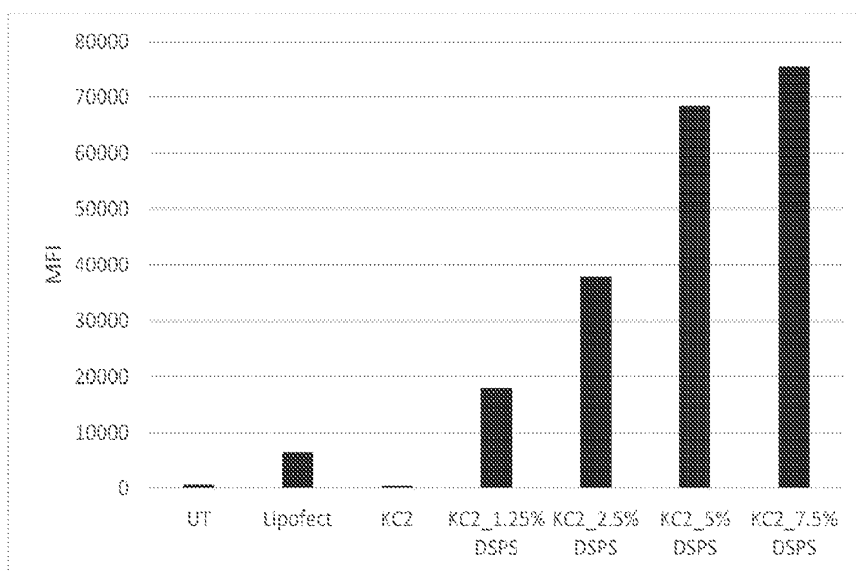
FIG. 3A (Example 12)**FIG. 3B (Example 12)**

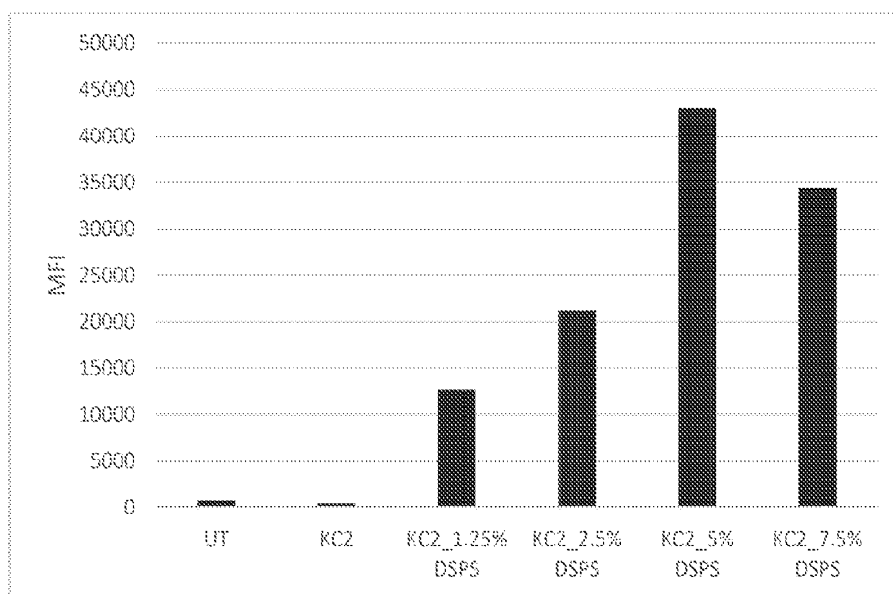
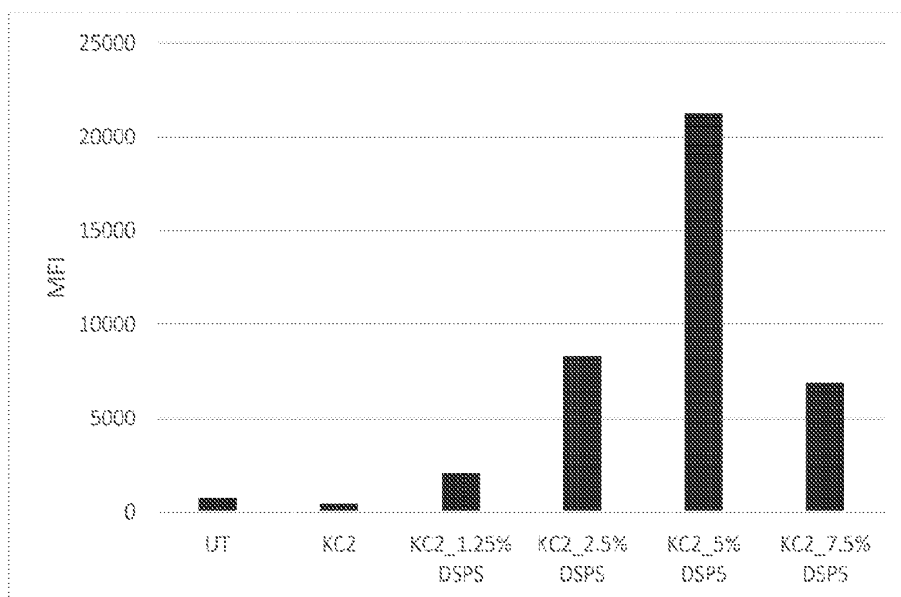
FIG. 3C (Example 12)**FIG. 3D (Example 12)**

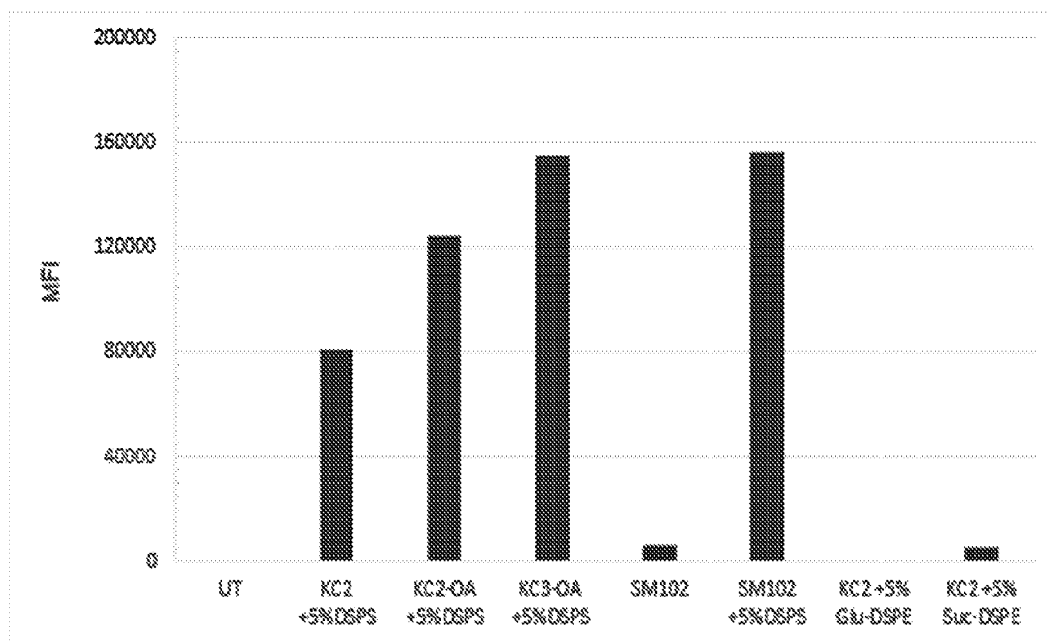
FIG. 4 (Example 13) – SM102 comparison with KC series

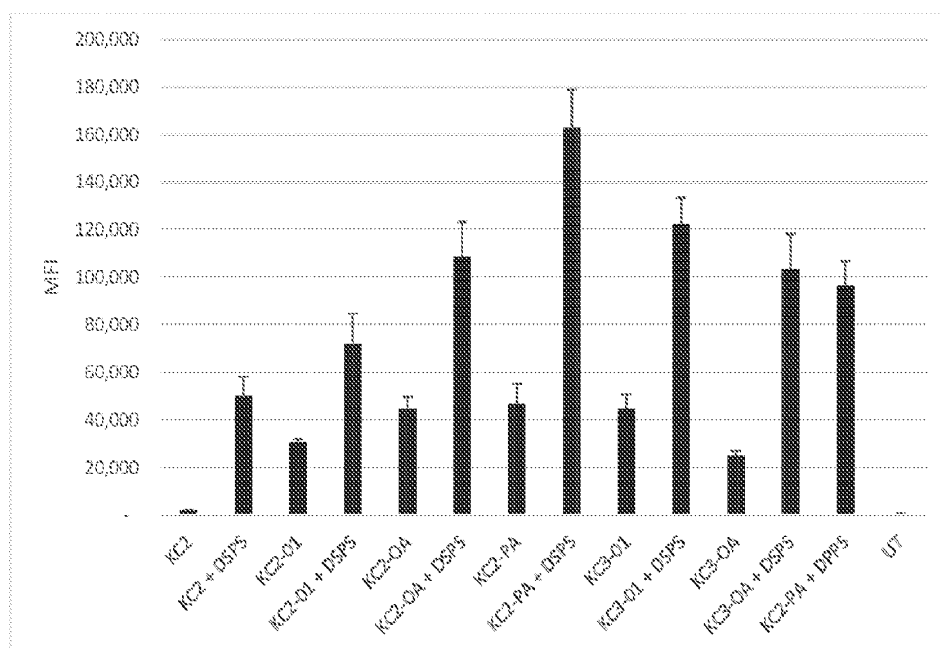
FIG. 5 (Example 14) – PS targeting KC series

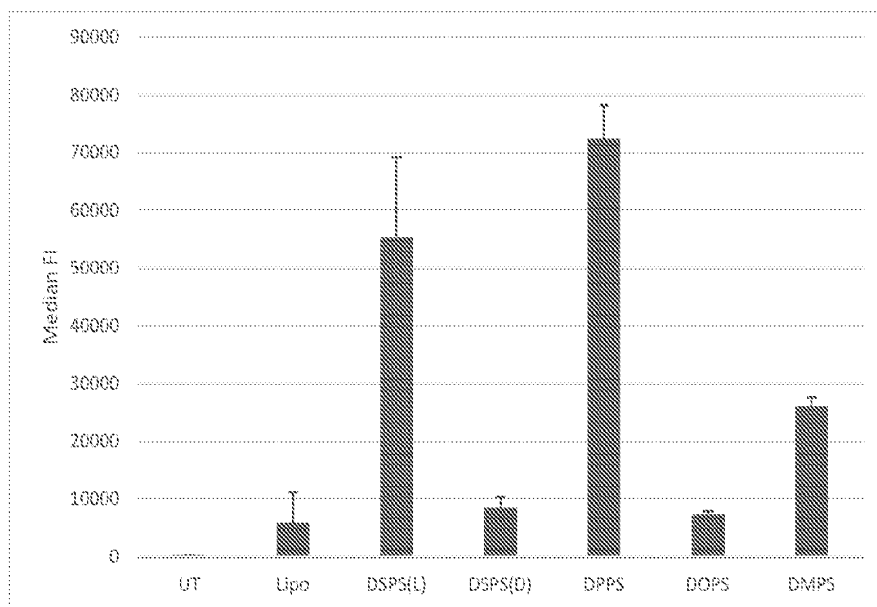
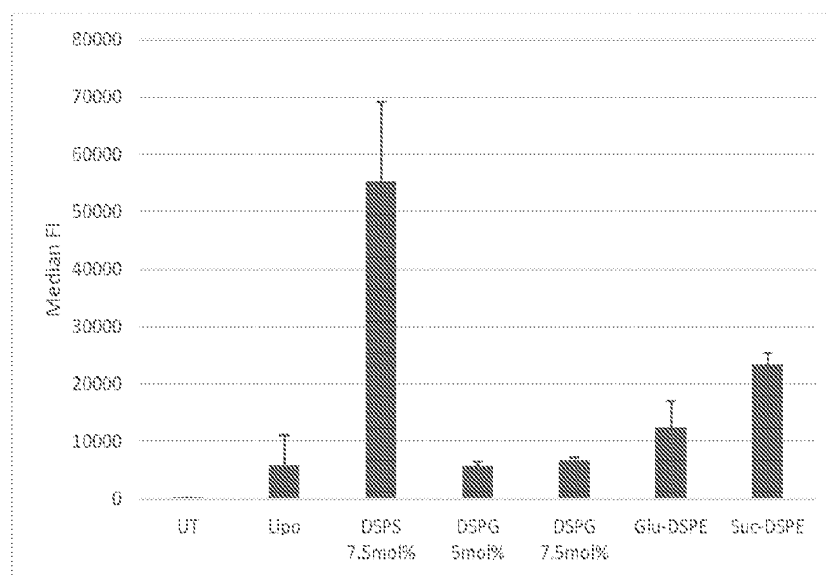
FIG. 6A (Example 15)**FIG. 6B (Example 15)**

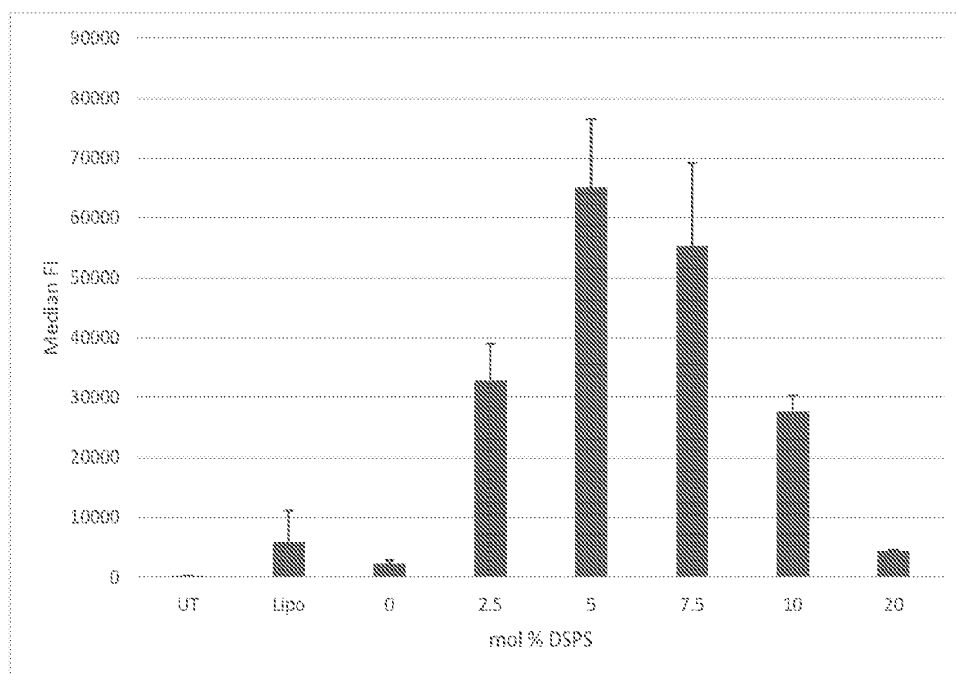
FIG. 7 (Example 16)

FIG. 8 (Example 17)

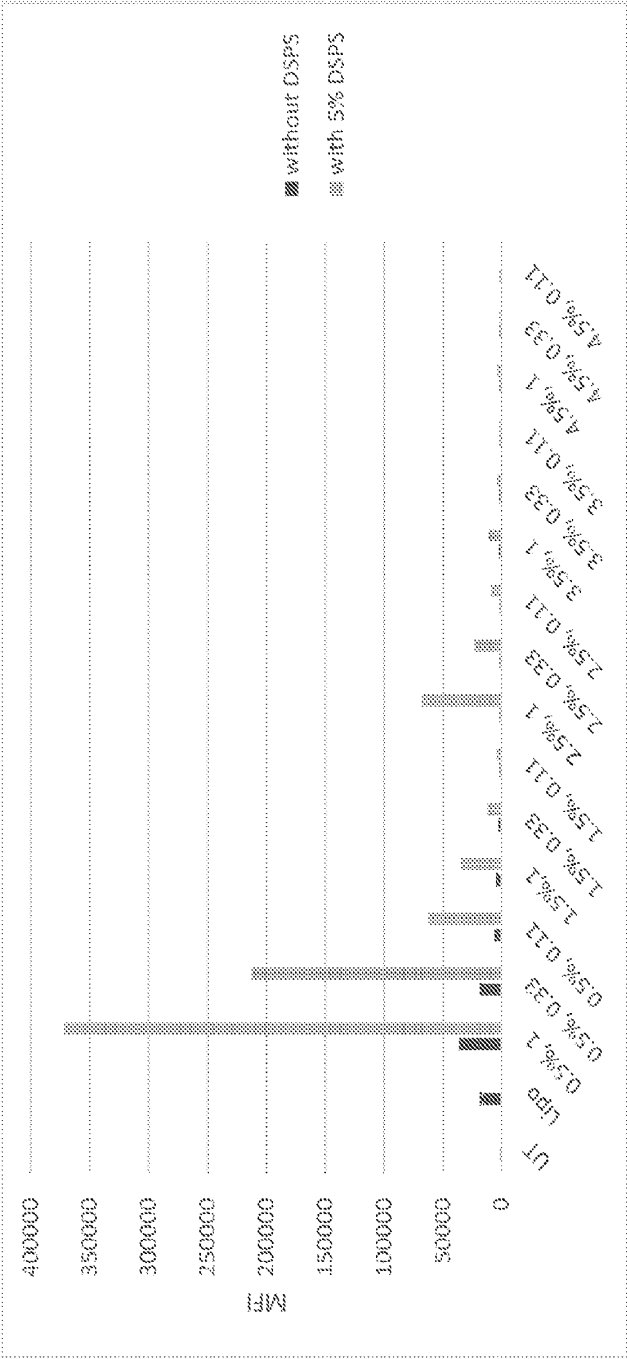


FIG. 9A (Example 18)

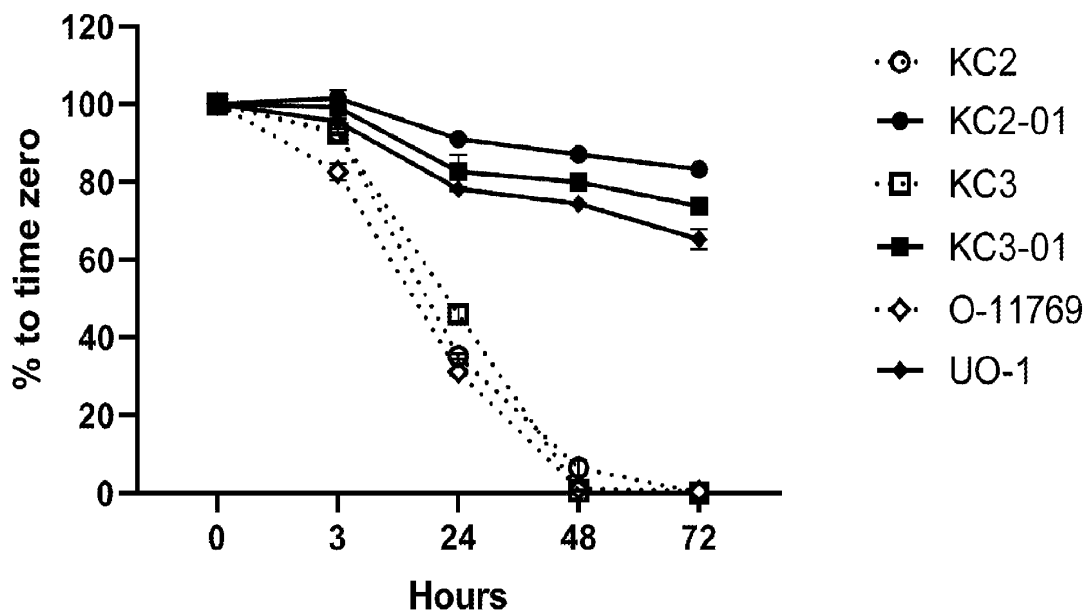


FIG. 9B (Example 18)

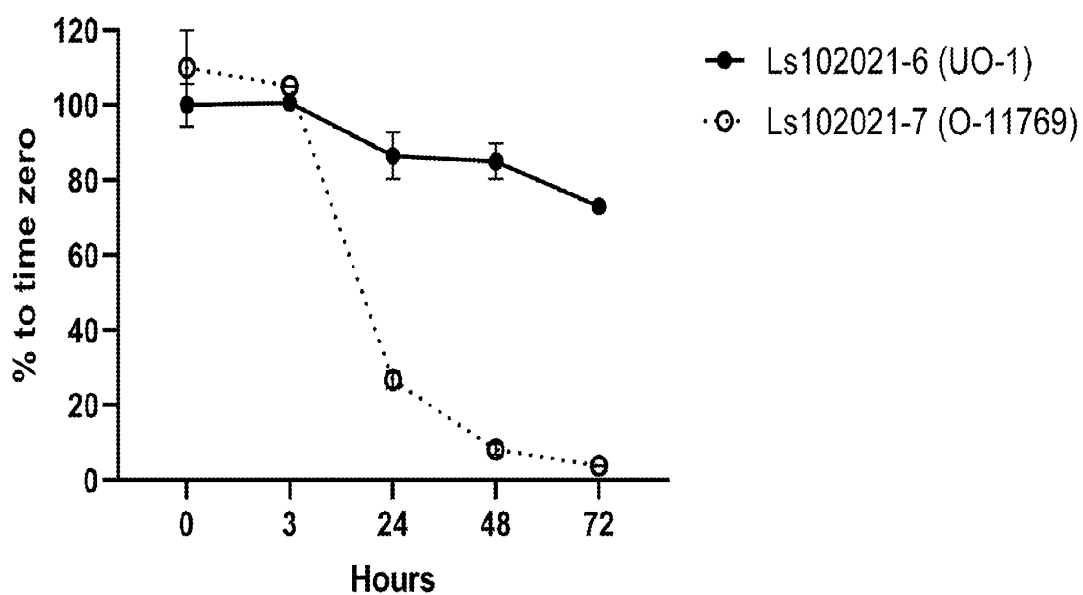


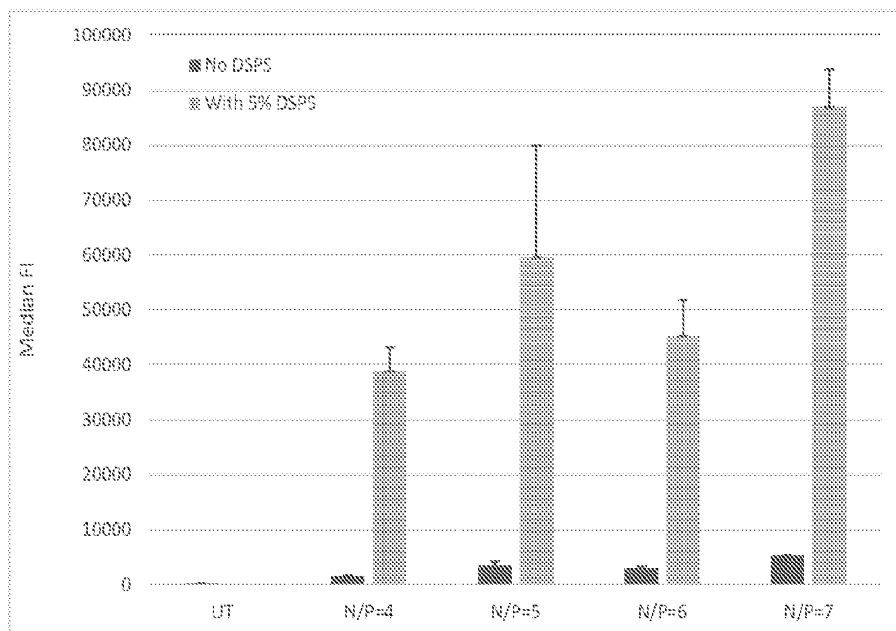
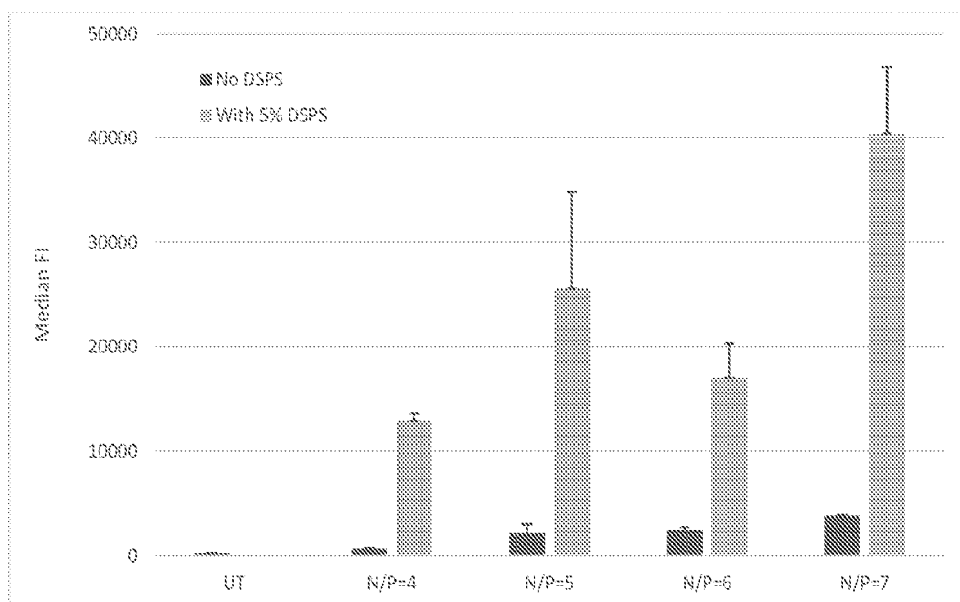
FIG. 10A (Example 19)**FIG. 10B (Example 19)**

FIG. 11 (Example 20)

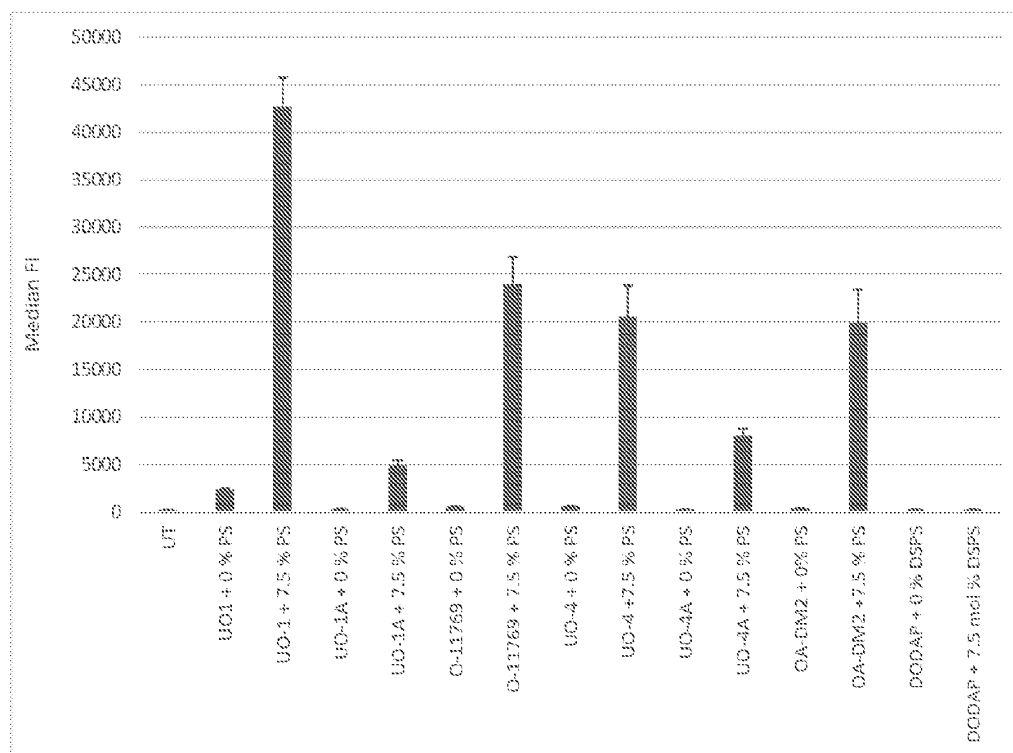


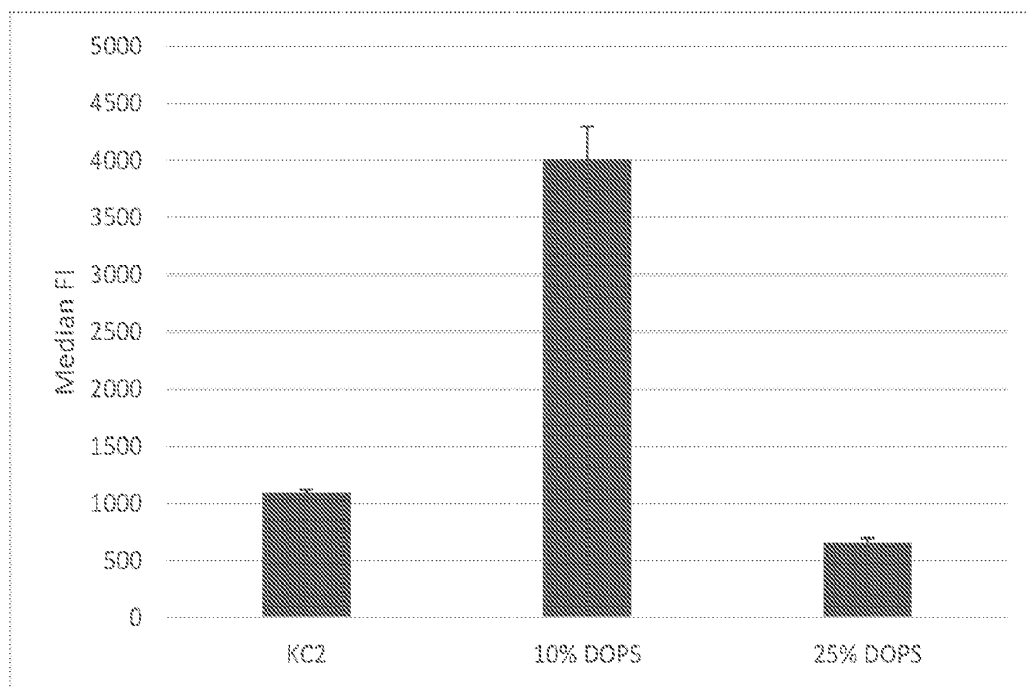
FIG. 12 (Example 21)

FIG. 13A (Example 22)

mVRN029 (SEQ ID NO: 2)

GGGAATAAACTAGTATCTTCTGGTCCCCACAGACTCAGAGAGAACCCGCCACCATGTTCTGTTCTCTGG
TGCTGCTGCCTCTGGTGTCCAGCCAGTGTGTGAACCTGACCACCAGAACACAGCTGCCTCCAGCCTACAC
CAACAGCTTTACCAGAGGCGTGTACTACCCCGACAAGGTGTTTCAGATCCAGCGTGTGCACTCTACCCAG
GACCTGTTCTCTGCCCTTCTTCAGCAACGTGACCTGGTTCACGCCATCCACGTGTCCGGCACCATTGGCA
CCAAGAGATTCGACAACCCCGTGTGCCCTTCAACGACGGGGTGTACTTTGCCAGCACCAGAGAAGTCCAA
CATCATCAGAGGCTGGATCTTCGGCACCACACTGGACAGCAAGACCCAGAGCCTGCTGATCCTGAACAAC
GCCACCAACGTGGTCATCAAAGTGTGCGAGTTCAGTTCTGCAACGACCCCTTCTTGGGCGTCTACTACC
ACAAGAACAAACAAGAGCTGGATGGAAGCGAGTTCGGGGTGTACAGCAGCGCCAACAACTGCACCTTCGA
GTACGTGTCCCAGCCTTCTCTGATGGACCTGGAAGGCAAGCAGGGCAACTTCAAGAACCTGCGCGAGTTC
GTGTTTAAAGAACATCGACGGCTACTTCAAGATCTACAGCAAGCACACCCCTATCAACCTCGTGCGGGATC
TGCCCTCAGGGCTTCTCTGCTCTGGAACCCCTGGTGGATCTGCCCATCGGCATCAACATCACCCGGTTTCA
GACACTGCTGGCCCTGCACAGAAGCTACCTGACACCTGGCGATAGCAGCAGCGGATGGACAGCTGGTGCC
GCCGCTTACTATGTGGGCTACCTGCAGCCTAGAACCTTCTGCTGAAGTACAACGAGAACGGCACCATCA
CCGACGCCGTGGATTGTGCTCTGGATCCTCTGAGCGAGACAAAGTGCACCCCTGAAGTCTTTCACCGTGGA
AAAGGCATCTACCAAGACCAGCAACTTCCGGGTGCAGCCACCGAATCCATCGTGCGGTTCCTCCATATC
ACCAATCTGTGCCCTTTCGGCGAGGTGTTCAATGCCACCAGATTTCGCTCTGTGTACGCTGGAACCCGGA
AGCGGATCAGCAATTGCGTGGCCGACTACTCCGTGCTGTACAACCTCCGCCAGCTTCAGCACCTTCAAGTG
CTACGGCGTGTCCCTACCAAGCTGAACGACCTGTGCTTCACAAACGTGTACGCCGACAGCTTCGTGATC
CGGGGAGATGAAGTGCGGCAGATTGCCCTGGACAGACAGGCAAGATCGCCGACTACAACCTACAAGCTGC
CCGACGACTTCACCGCTGTGTGATTGCCCTGGAACAGCAACAACCTGGACTCCAAAGTTCGGCGGCAACTA
CAATTACCTGTACCGCTGTTCGGGAAGTCCAATCTGAAGCCCTTCGAGCGGGACATCTCCACCGAGATC
TATCAGGCCCGCAGCACCCCTTGTAAACGGCGTGGAAAGGCTTCAACTGCTACTTCCCACTGCAGTCTACG
GCTTTTCAGCCACAAATGGCGTGGGCTATCAGCCCTACAGAGTGGTGGTGTGAGCTTCGAACTGCTGCA
TGCCCTTGCACAGTGTGCGGCCCTAAGAAAAGCACCAATCTCGTGAAGAACAATGCGTGAACCTCAAC
TTCAACGGCCTGACCGGCACCGCGGTGCTGACAGAGAGCAACAAGAAGTTCCTGCCATTCCAGCAGTTTG
GCCGGATATCGCGGATACCACAGAGCGCGTTAGAGATCCCCAGACACTGGAATCCTGGACATCACCCC
TTGCACTTCGGCGGAGTGTCTGTGATCACCCCTGGCACCAACACCAGCAATCAGGTGGCAGTGTGTATC
CAGGACGTGAACGTGTACCGAAGTGCCCGTGGCCATTACGCGGATCAGCTGACACCTACATGGCGGGTGT
ACTCCACCGGCAGCAATGTGTTTCAGACCAGAGCCGGCTGTCTGATCGGAGCCGAGCACGTGAACAATAG
CTACGAGTGCAGATCCCCATCGGCGCTGGAATCTGCGCCAGCTACCAGACACAGACAAACAGCCCTCGG
AGAGCCAGAAGCGTGGCCAGCCAGAGCATATTGCCCTACACAATGTCTCTGGGCGCCGAGAACAGCGTGG
CCTACTCCAACAACCTATCGCTATCCCCACCAACTTCACCATCAGCGTGACCACAGAGATCTGCTGTG
GTCCATGACCAAGACCAGCGTGGACTGCACCATGTACATCTGCGGCGATTCCACCGAGTGCTCCAACCTG
CTGCTGCAGTACGGCAGCTTCTGCACCCAGCTGAATAGAGCCCTGACAGGGATCGCCGTGGAACAGGACA
AGAACACCCAAGAGGTGTTTCGCCCAAGTGAAGCAGATCTACAAGACCCCTCCTATCAAGGACTTCGGCGG
CTTCAATTTTCAGCCAGATTCTGCCCGATCCTAGCAAGCCAGCAAGCGGAGCTTCATCGAGGACCTGCTG
TTCAACAAAGTGACACTGGCCGACCGCGCTTTCATCAAGCAGTATGGCGATTGTCTGGGCGACATTGCCG
CCAGGGATCTGATTTGCGCCAGAGTTTAACGGACTGACAGTGTGCTCCTCTGCTGACCGATGAGAT
GATCGCCAGTACACATCTGCCCTGCTGGCCGGCACAATCACAAGCGGCTGGACATTTGGAGCAGGCGCC
GCTCTGCAGATCCCCCTTGTCTATGCAGATGGCCTACCGGTTCAACGGCATCGGAGTGACCCAGAATGTGC
TGTACGAGAACCAGAAGCTGATCGCCAACAGTTCACAGCGCCATCGGCAAGATCCAGGACAGCCTGAG
CAGCACAGCAAGCGCCCTGGGAAAGCTGCAGGACGTGGTCAACCAGAATGCCAGGCACTGAACACCCCTG
GTCAAGCAGCTGTCTCCAACCTTCGGCGCCATCAGCTCTGTGCTGAACGATATCCTGAGCAGACTGGACC
CTCCTGAGGCCGAGGTGCAGATCGACAGACTGATCAGAGCAGACTGCAGAGCCTCCAGACATACGTGAC
CCAGCAGCTGATCAGAGCCGCCGAGATTAGAGCCTCTGCCAATCTGGCCGCCACCAAGATGTCTGAGTGT
GTGCTGGGCCAGAGCAAGAGAGTGGACTTTTGCGGCAAGGGCTACCACCTGATGAGCTTCCCTCAGTCTG
CCCCCTCACGGCGTGGTGTCTTCTGCACGTGACATATGTGCCCGCTCAAGAGAAGAATTTCAACACCGCTCC

FIG. 13A (Example 22) Continued

AGCCATCTGCCACGACGGCAAAGCCCACCTTTCCTAGAGAAGGCGTGTTCGTGTCCAACGGCACCCATTGG
TTCGTGACACAGCGGAACCTTCTACGAGCCCCAGATCATCACCACCGACAACACCTTCGTGTCTGGCAACT
GCGACGTTCGTGATCGGCATTGTGAACAATAACCGTGTACGACCCCTCTGCAGCCCGAGCTGGACAGCTTCAA
AGAGGAACTGGACAAGTACTTTAAGAACCACACAAGCCCCGACGTGGACCTGGGCGATATCAGCGGAATC
AATGCCAGCGTCGTGAACATCCAGAAAGAGATCGACCGGCTGAACGAGGTGGCCAAGAATCTGAACGAGA
GCCTGATCGACCTGCAAGAACTGGGGAAGTACGAGCAGTACATCAAGTGGCCCTGGTACATCTGGCTGGG
CTTTATCGCCGGACTGATTGCCATCGTGATGGTCACAATCATGCTGTGTTGCATGACCAGCTGCTGTAGC
TGCCCTGAAGGGCTGTTGTAGCTGTGGCAGCTGCTGCAAGTTTCGACGAGGACGATTCTGAGCCCGTCTGA
AGGGCGTGAACTGCACTACACATGATGACTCGAGCTGGTACTGCATGCACGCAATGCTAGCTGCCCTT
TCCCGTCCTGGGTACCCCGAGTCTCCCCGACCTCGGGTCCCAGGTATGCTCCCACCTCCACCTGCCCCA
CTCACCACCTCTGCTAGTTCCAGACACCTCCCAAGCAGCAGCAATGCAGCTCAAAACGCTTAGCCTAGC
CACACCCACACGGGAAACAGCAGTGATTAACCTTTAGCAATAAACGAAAGTTTAACTAAGCTATACTAAC
CCCAGGGTTGGTCAATTTTCGTGCCAGCCACACCCTGGAGCTAGCAGCGGCCGCGGCCGCAAAAAAAAAA
AA
AA

FIG. 13B (Example 22)

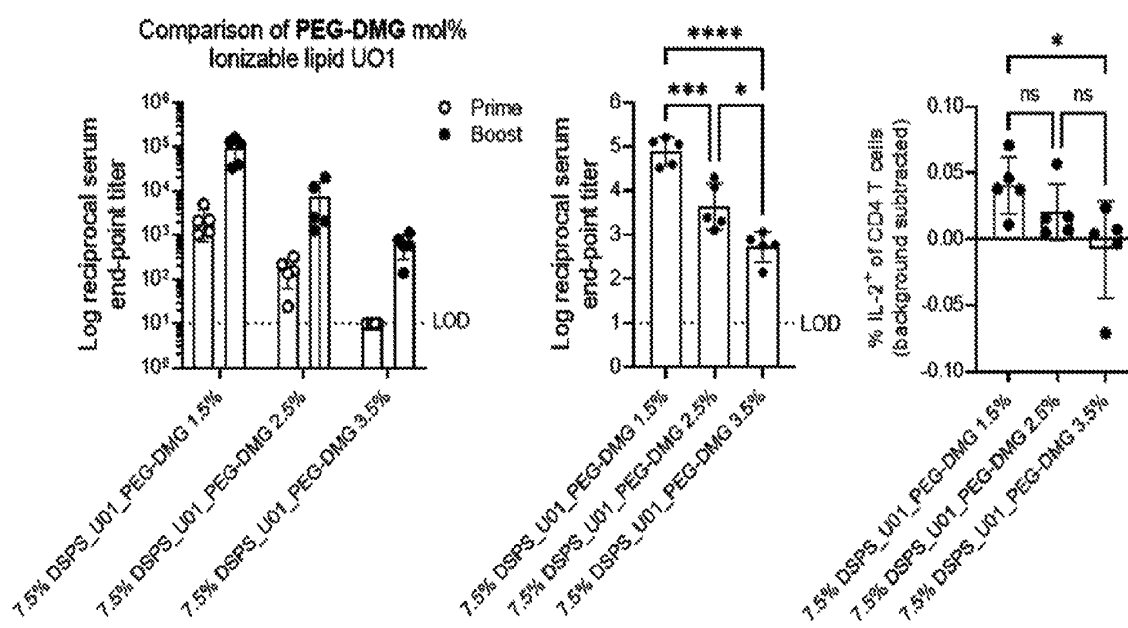


FIG. 13C (Example 22).

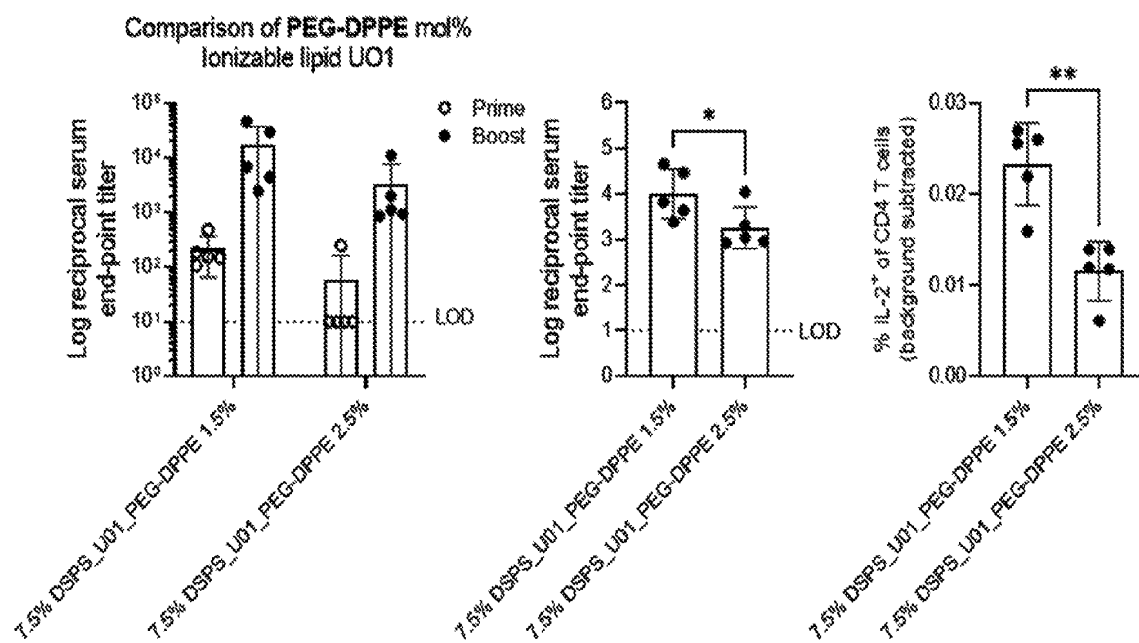
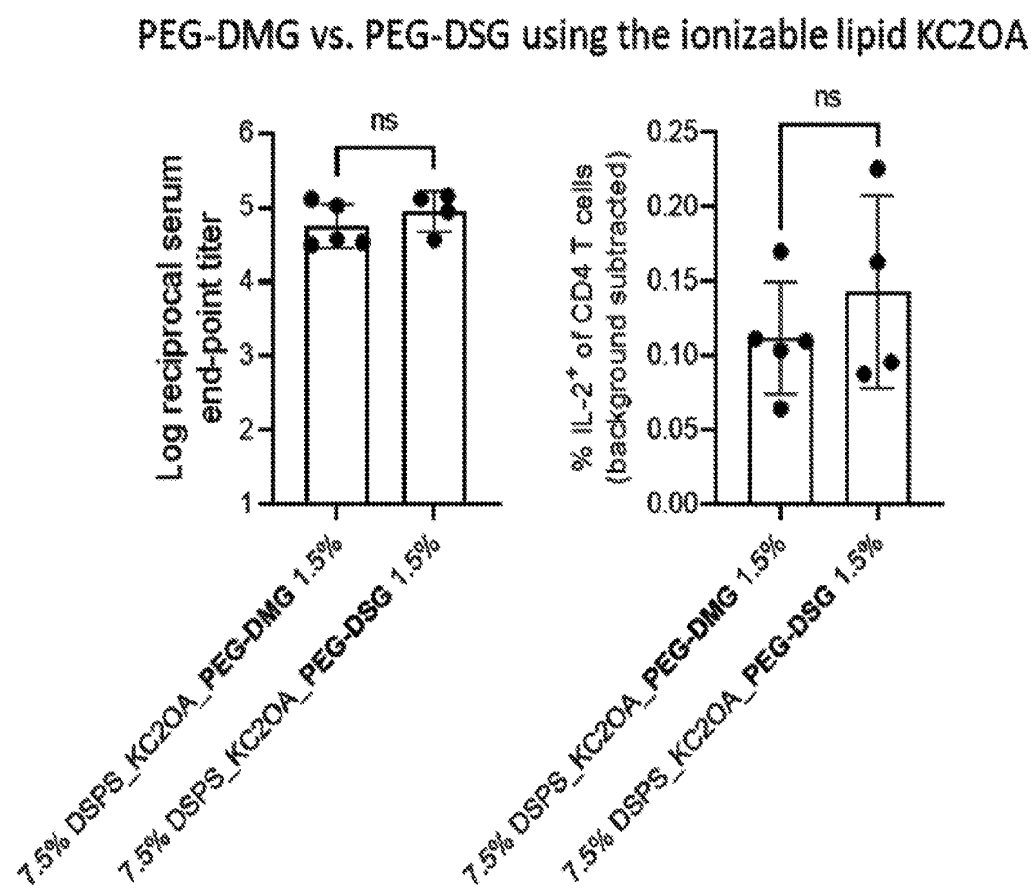


FIG. 13D (Example 22).



(Con't) FIG. 13D (Example 22).

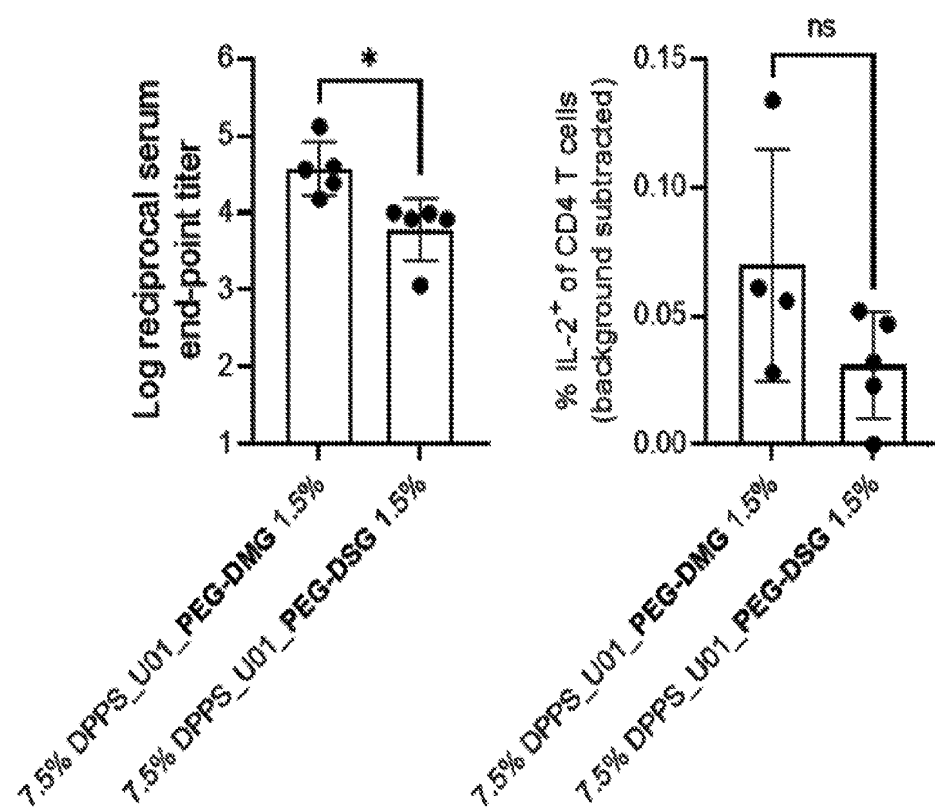


FIG. 13F (Example 22).

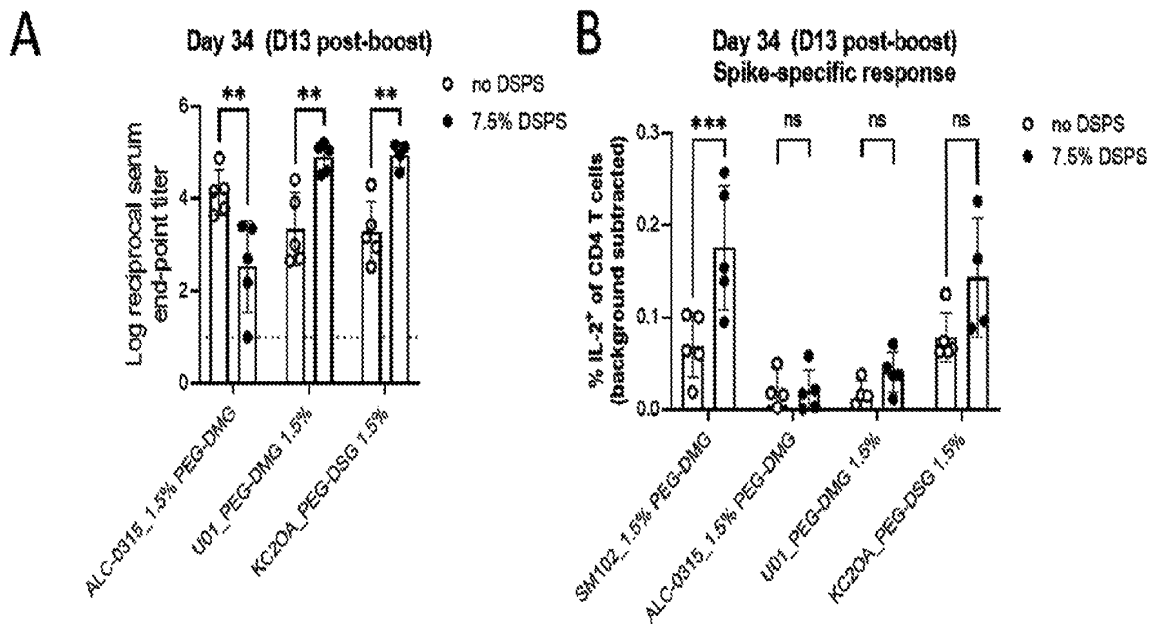


FIG. 13G (Example 22).

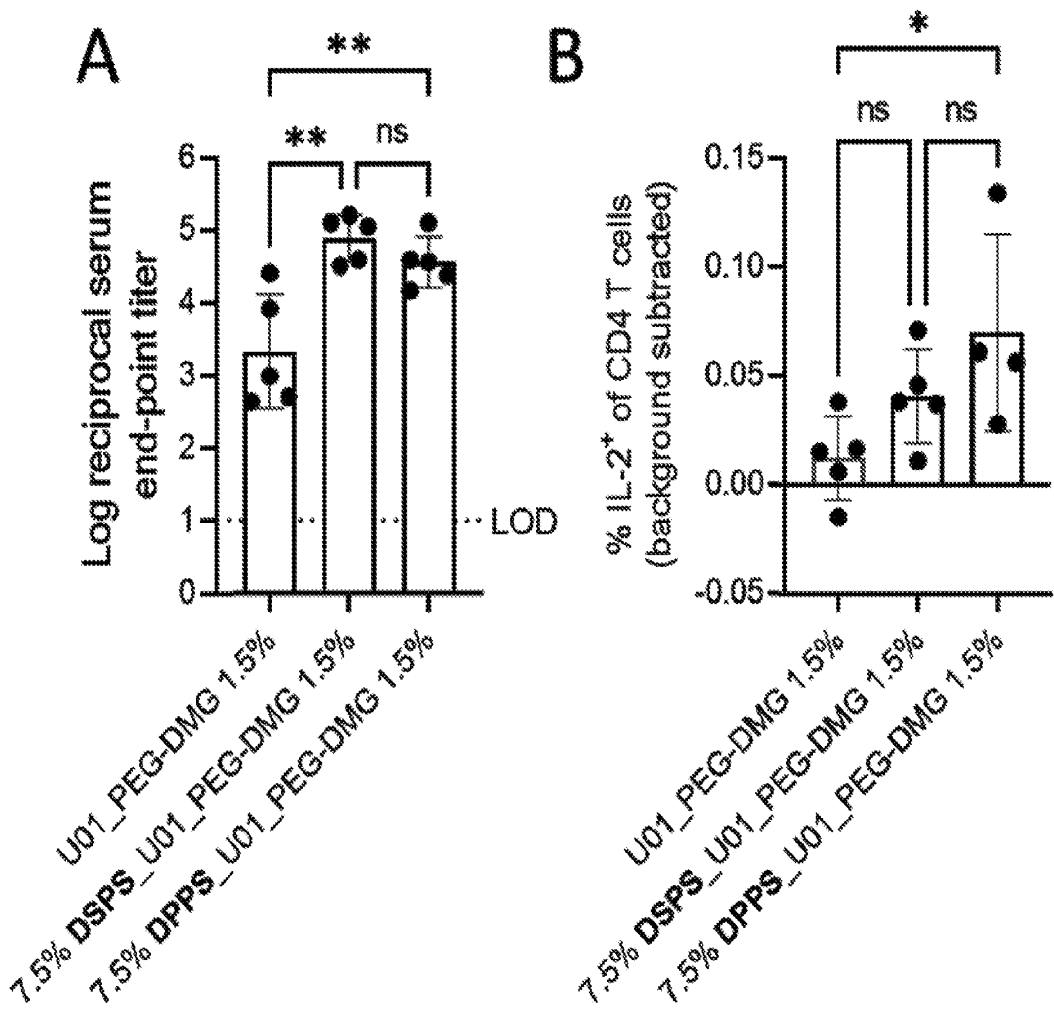


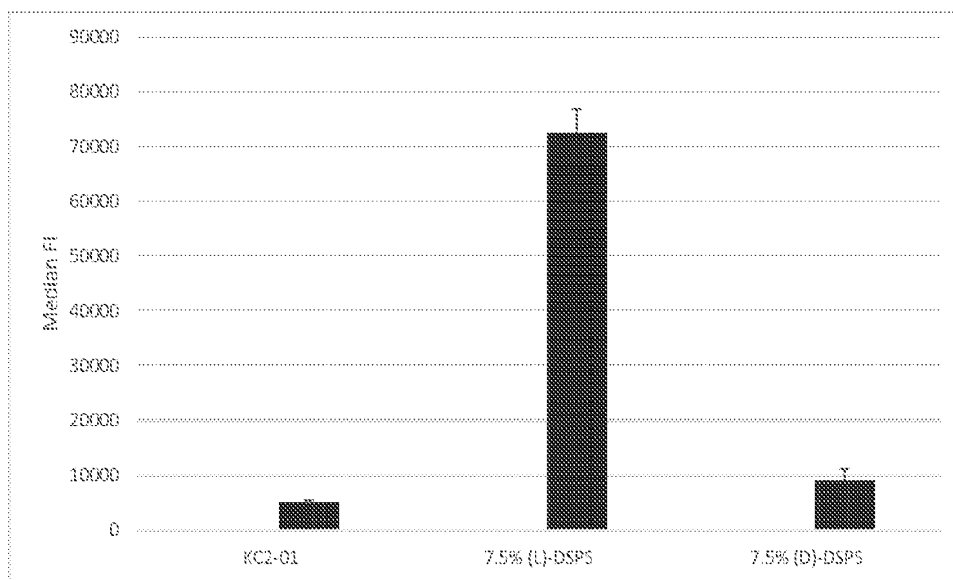
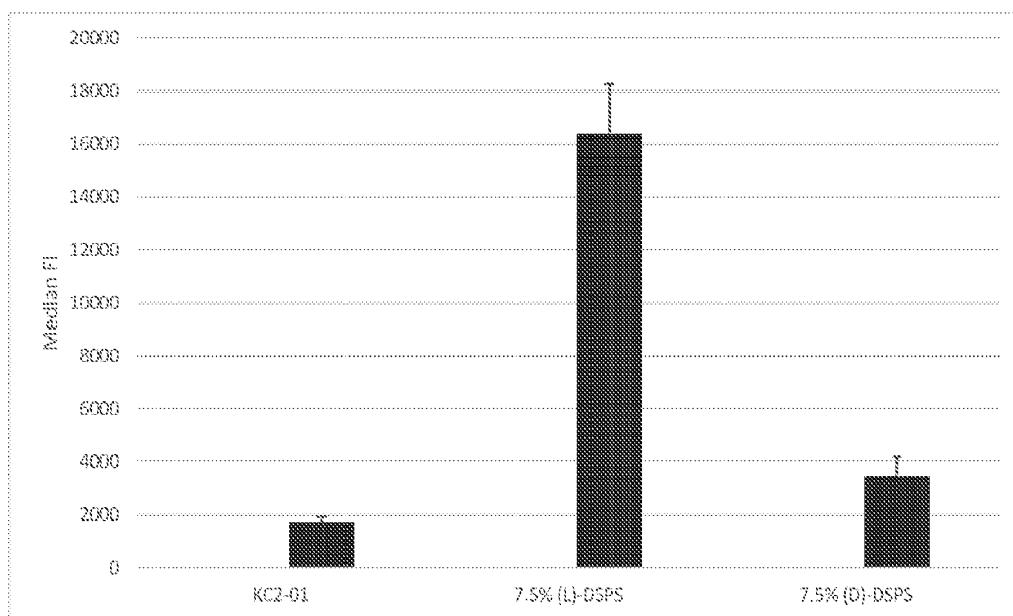
FIG. 14A (Example 23).**FIG. 14B (Example 23).**

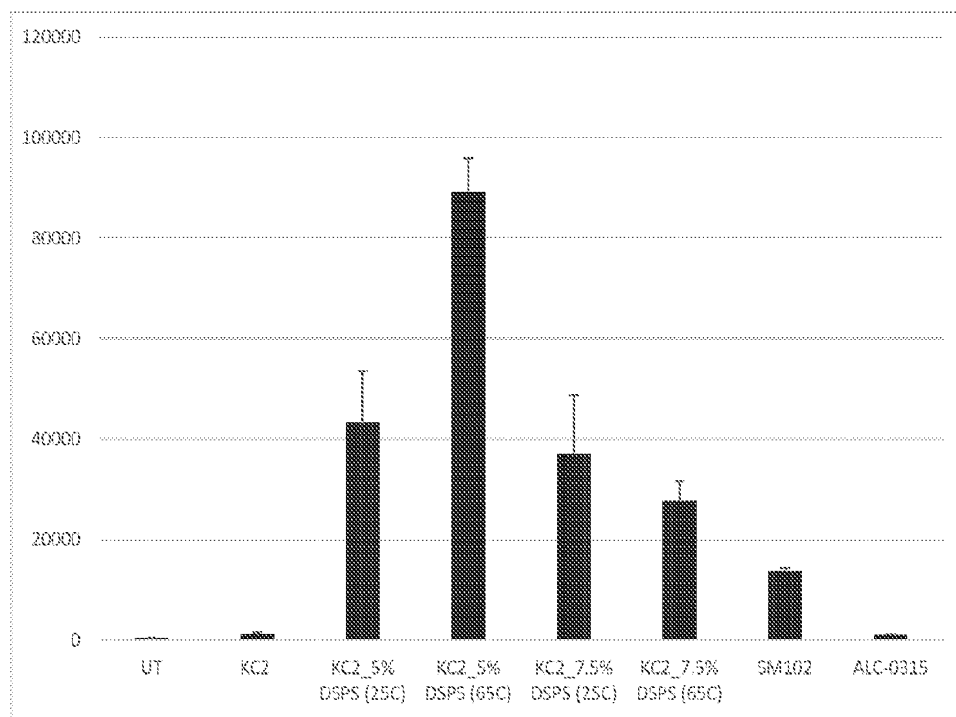
FIG. 15 (Example 24).

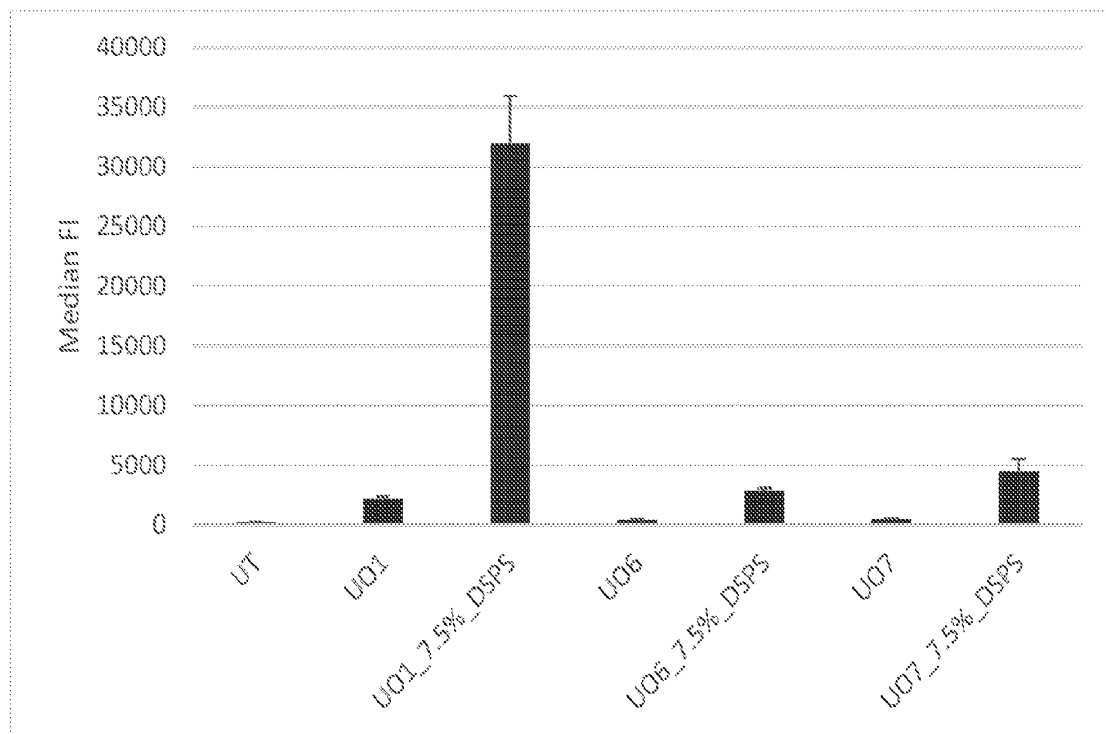
FIG. 16 (Example 25).

FIG. 17 (Example 26).

