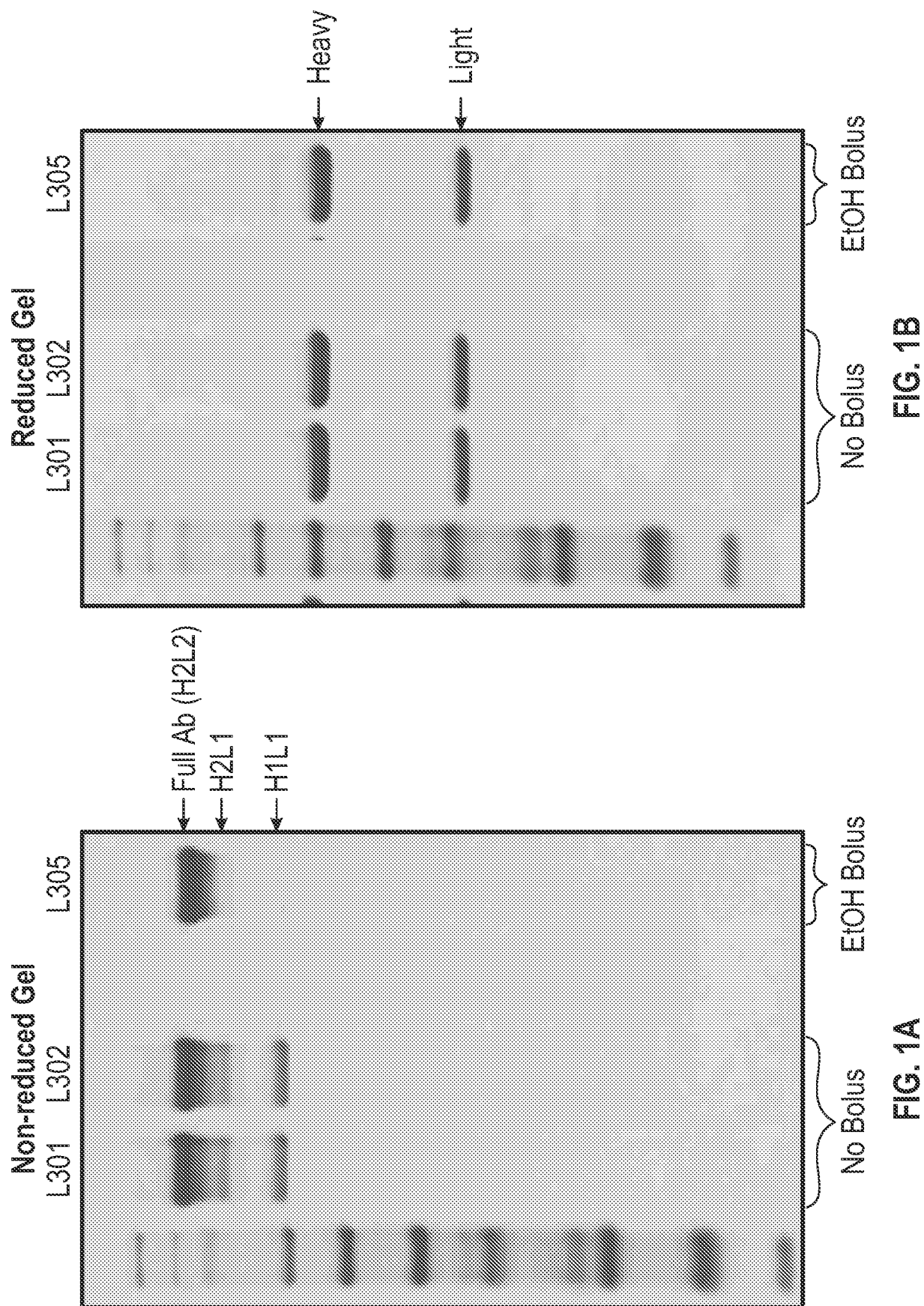


1/22



2/22

L301 No Bolus

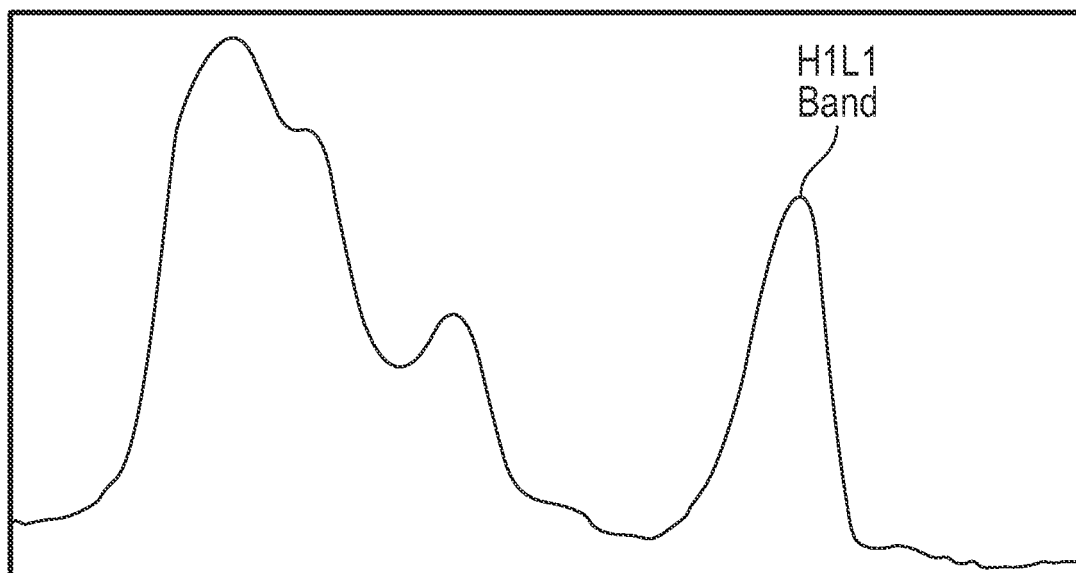


FIG. 1C

L302 No Bolus

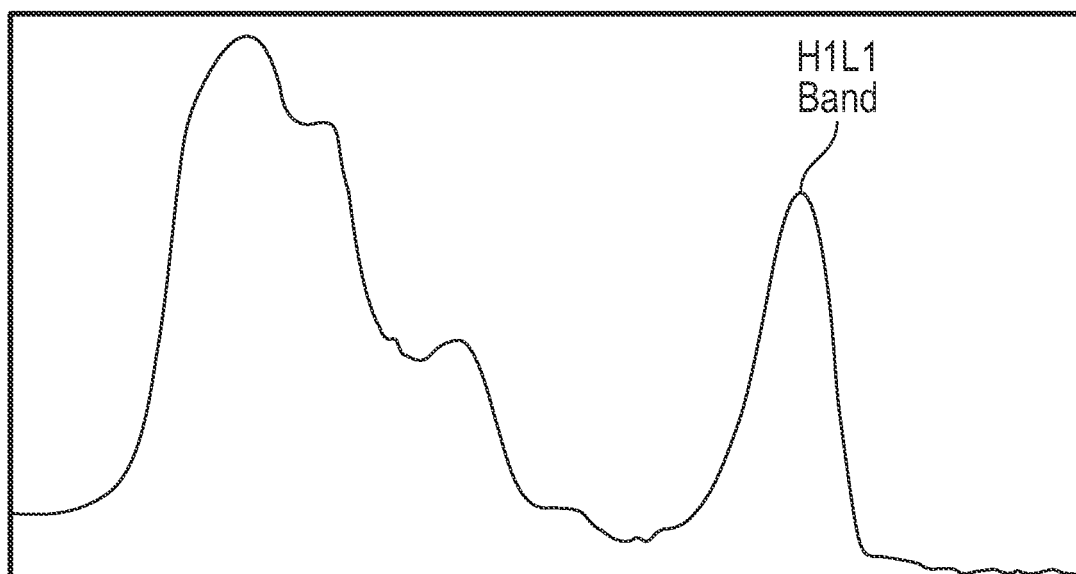


FIG. 1D

3/22

L305 10 g/L Bolus

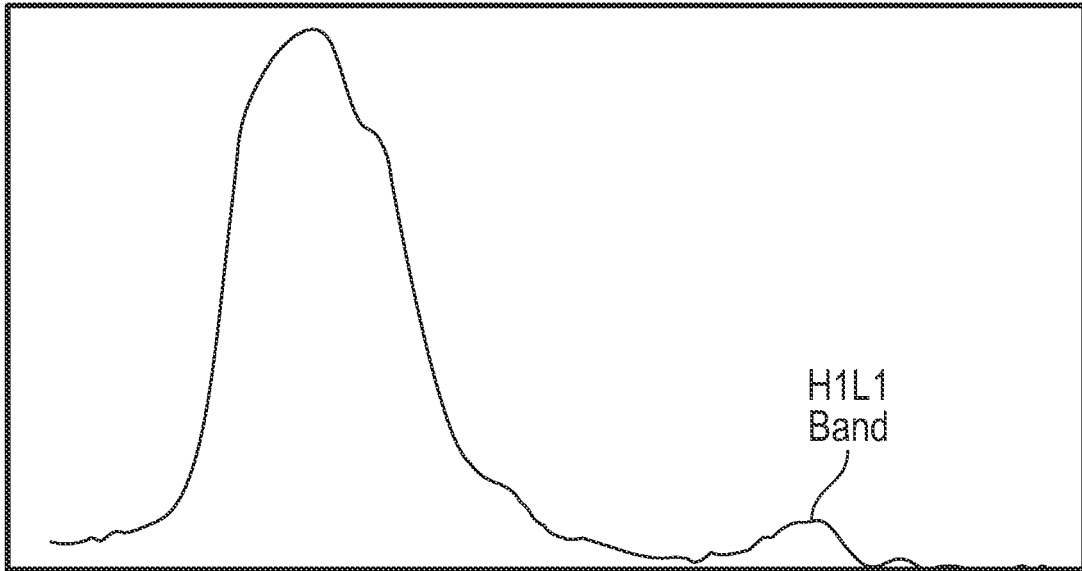


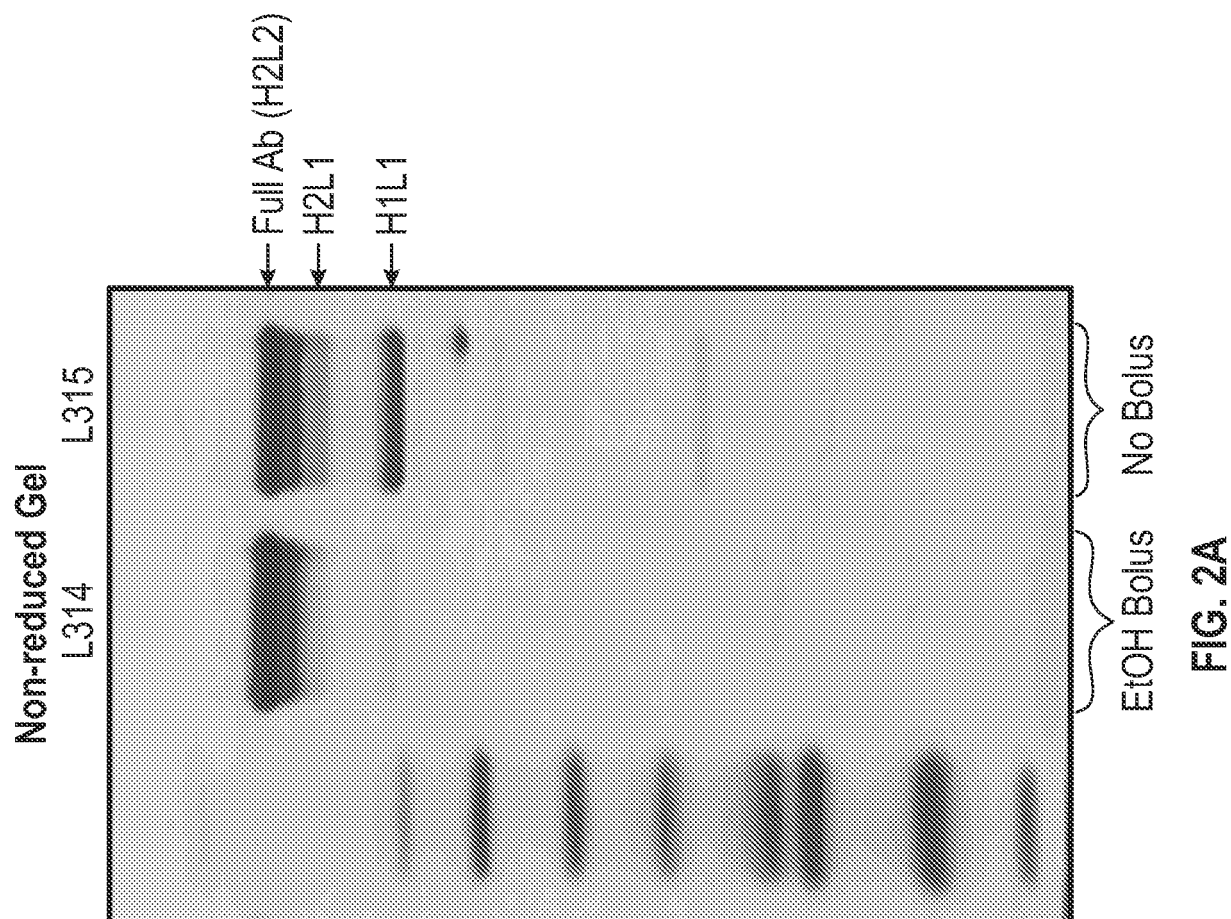
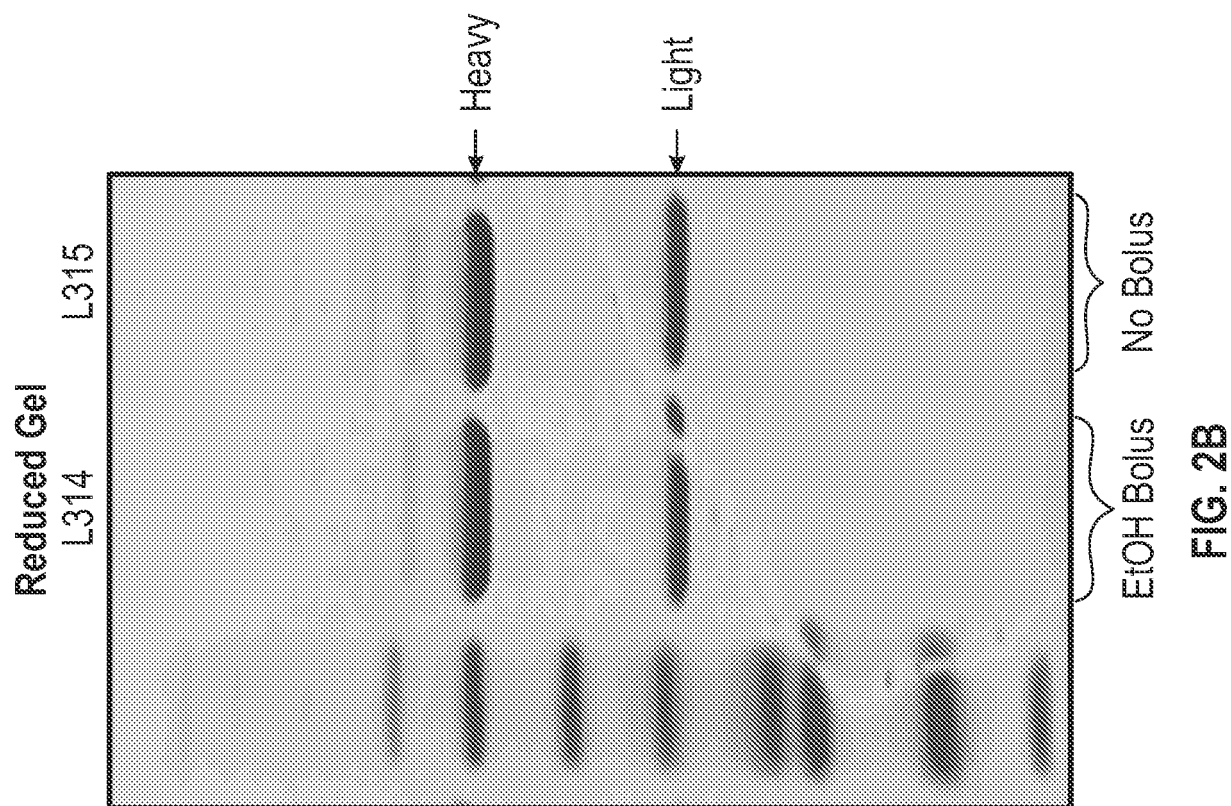
FIG. 1E

H1L1 Abundance

Run	Bolus	H1L1 Band
L301	None	8034
L302	None	7993
L305	10 g/L	798

FIG. 1F

4/22



5/22
L315 No Bolus

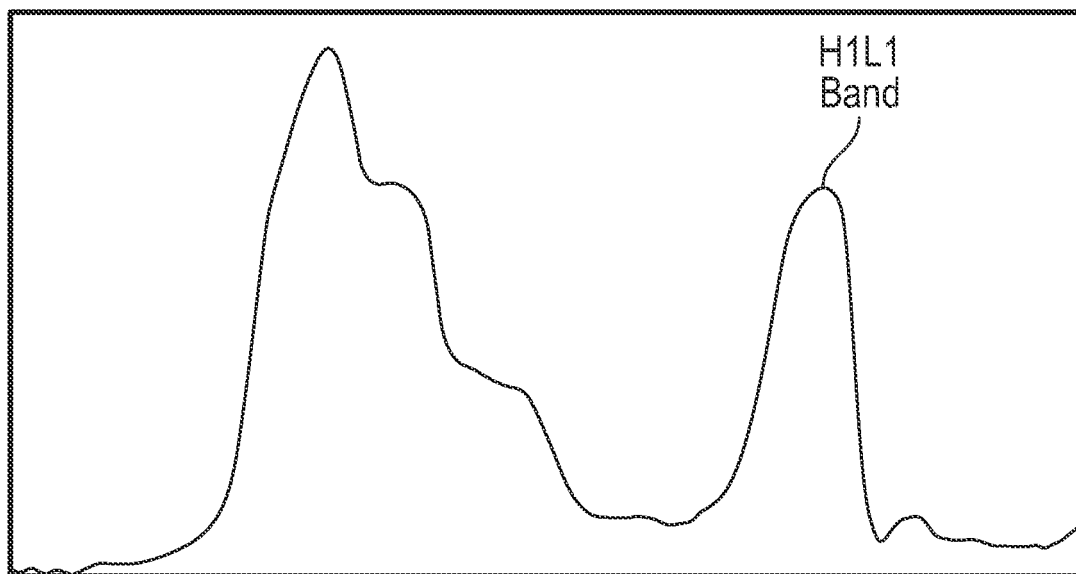


FIG. 2C

L314 10 g/L Bolus



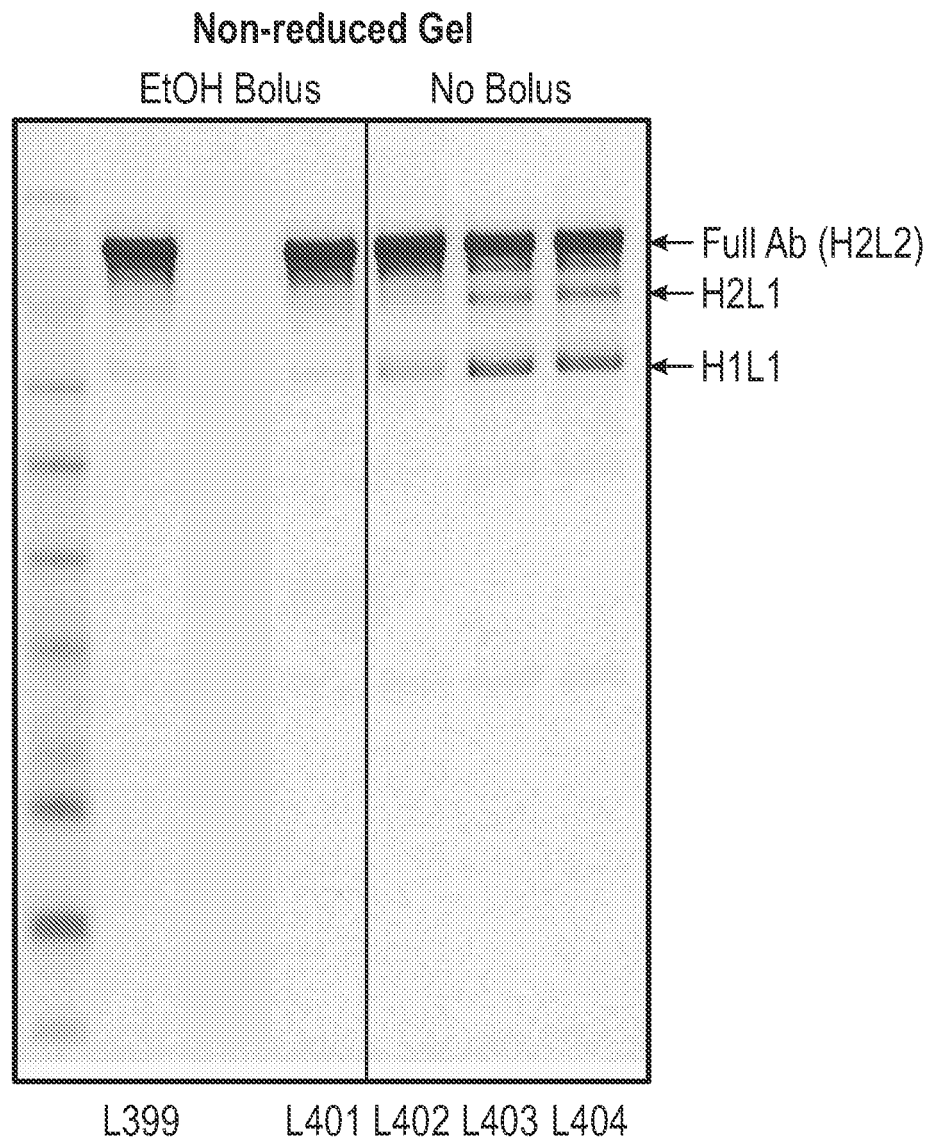
FIG. 2D

H1L1 Abundance

Run	Bolus	H1L1 Band
L314	10 g/L	9417
L315	None	1371

FIG. 2E

6/22

**FIG. 3A****H1L1 Abundance**

Run	Time Point	Ethanol Bolus	H1L1 Band
L399	T86	10 g/L	917
L401	T86	10 g/L	647
L402	T86	None	3089
L403	T86	None	7597
L404	T86	None	7574

FIG. 3B

7/22

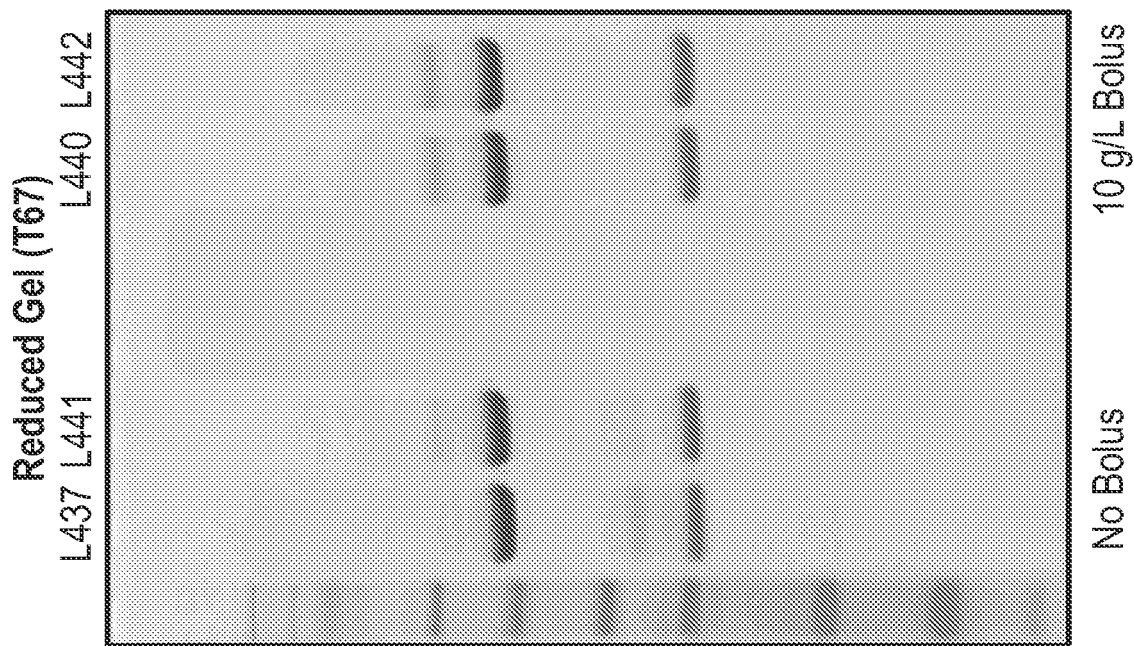


FIG. 4B

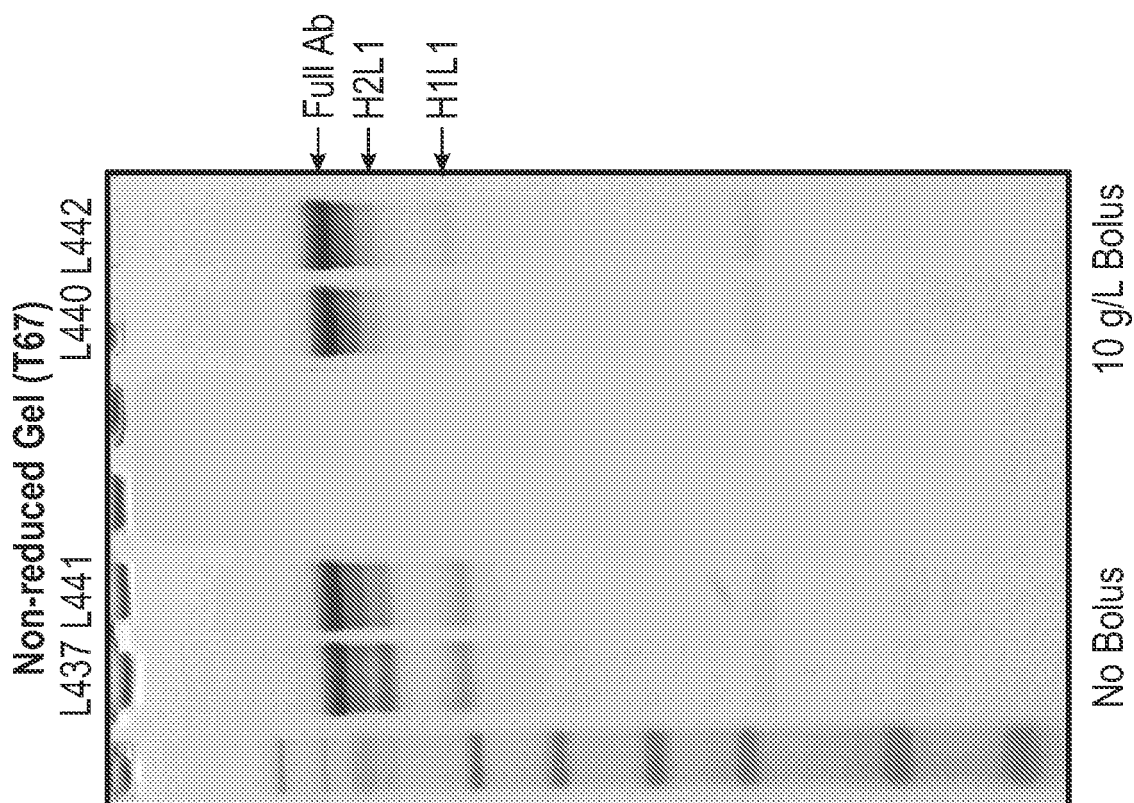


FIG. 4A

8/22

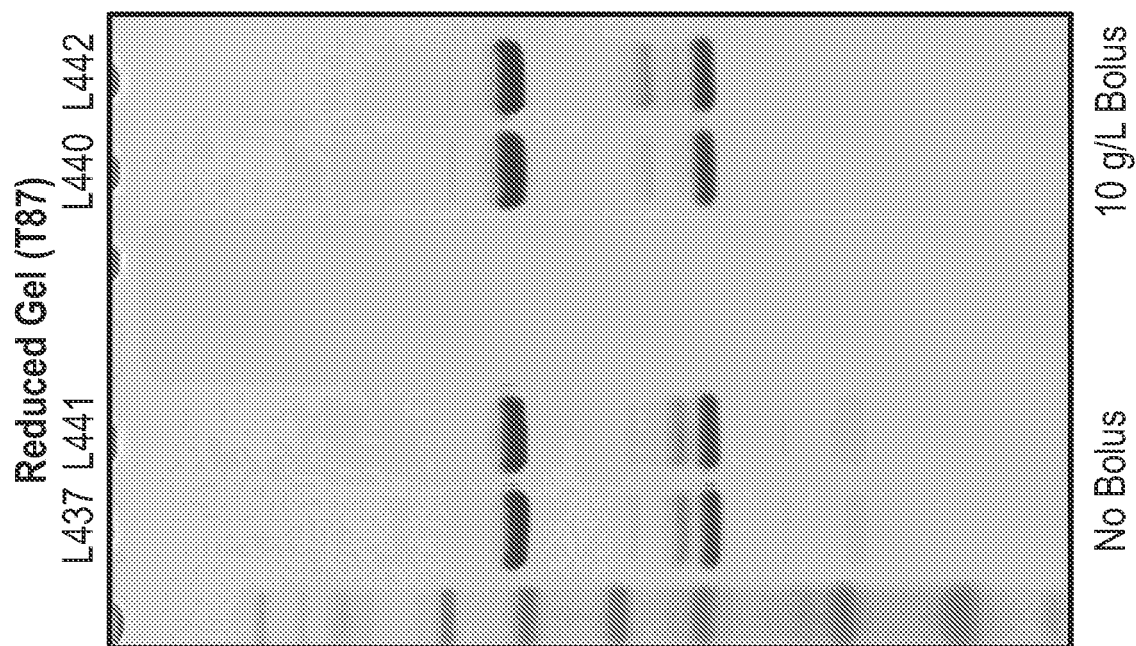


FIG. 4D

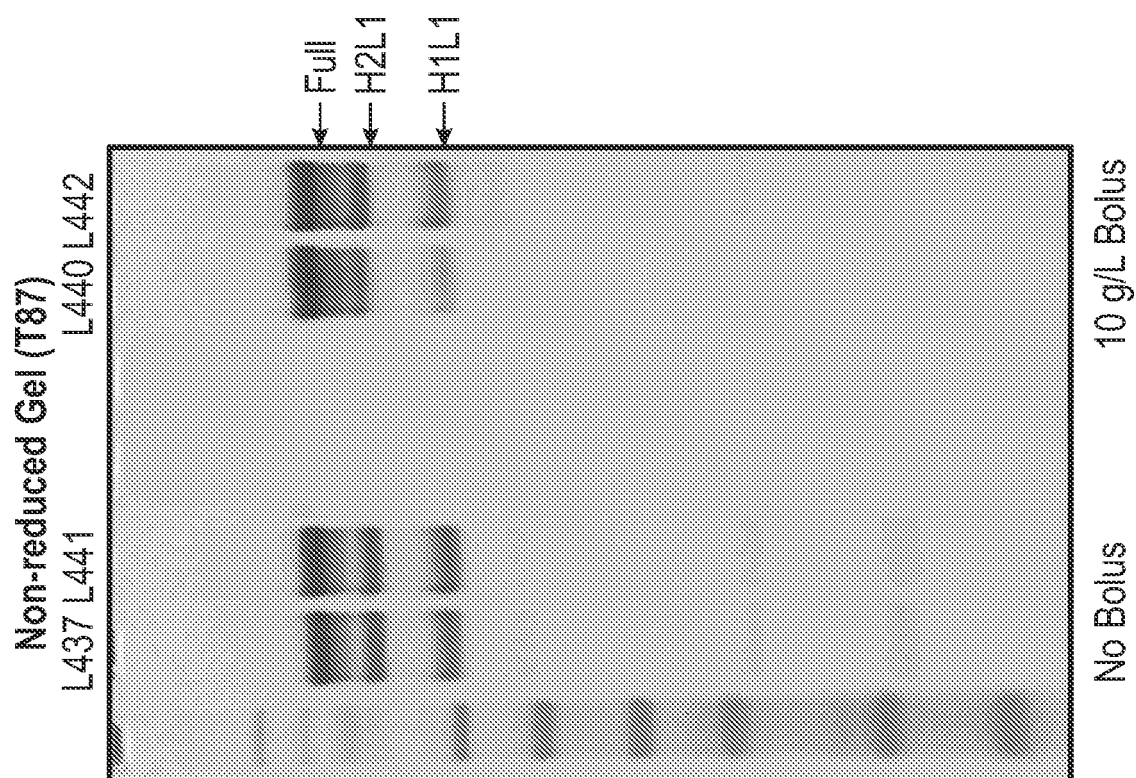


FIG. 4C

9/22

H1L1 Abundance (T67)

Run	Time Point	Ethanol Bolus	H1L1 Band
L437	T67	None	9427
L441	T67	None	7283
L440	T67	10 g/L	1220
L442	T67	10 g/L	3269

FIG. 4E

H1L1 Abundance (T87)

Run	Time Point	Ethanol Bolus	H1L1Band
L437	T86	None	10360
L441	T86	None	12022
L440	T86	10 g/L	6140
L442	T86	10 g/L	8726

FIG. 4F

10/22

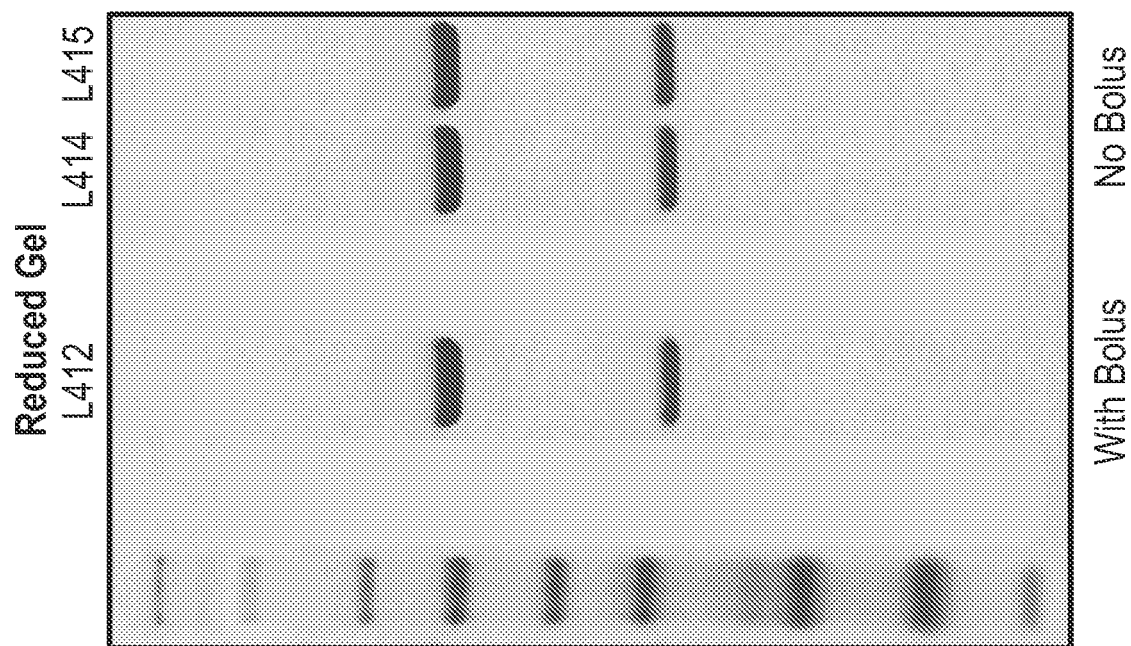


FIG. 5B

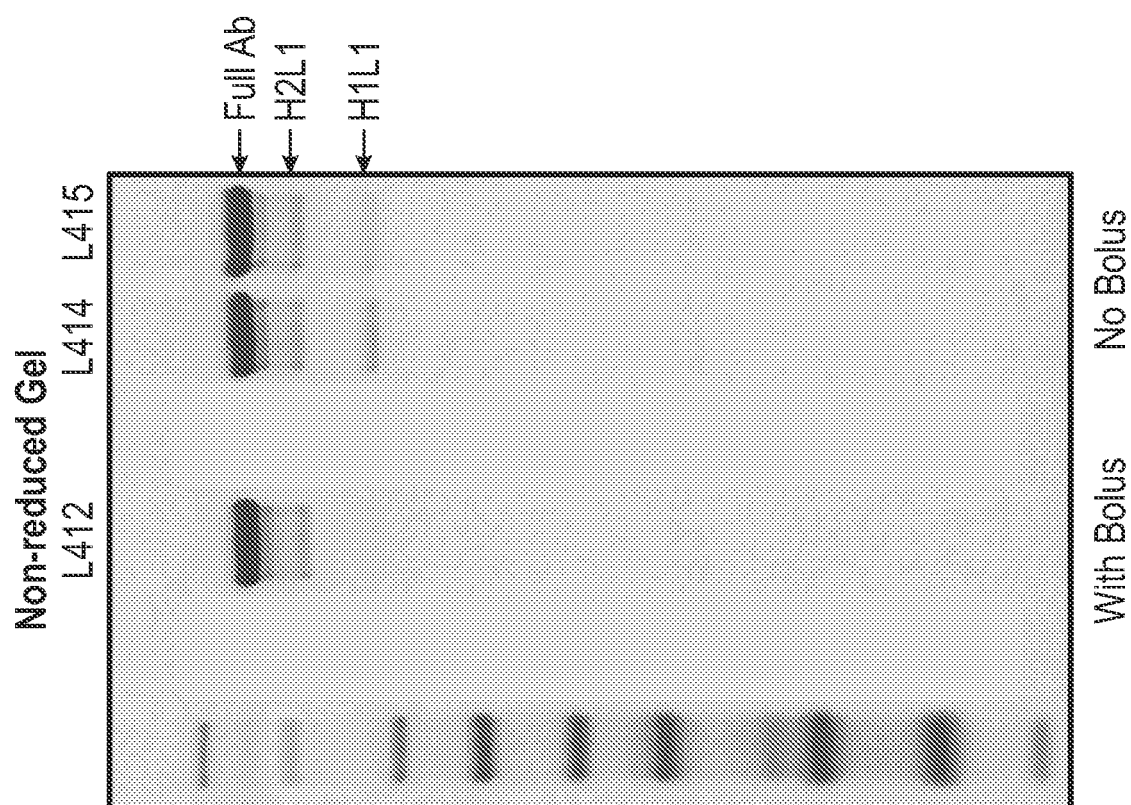


FIG. 5A

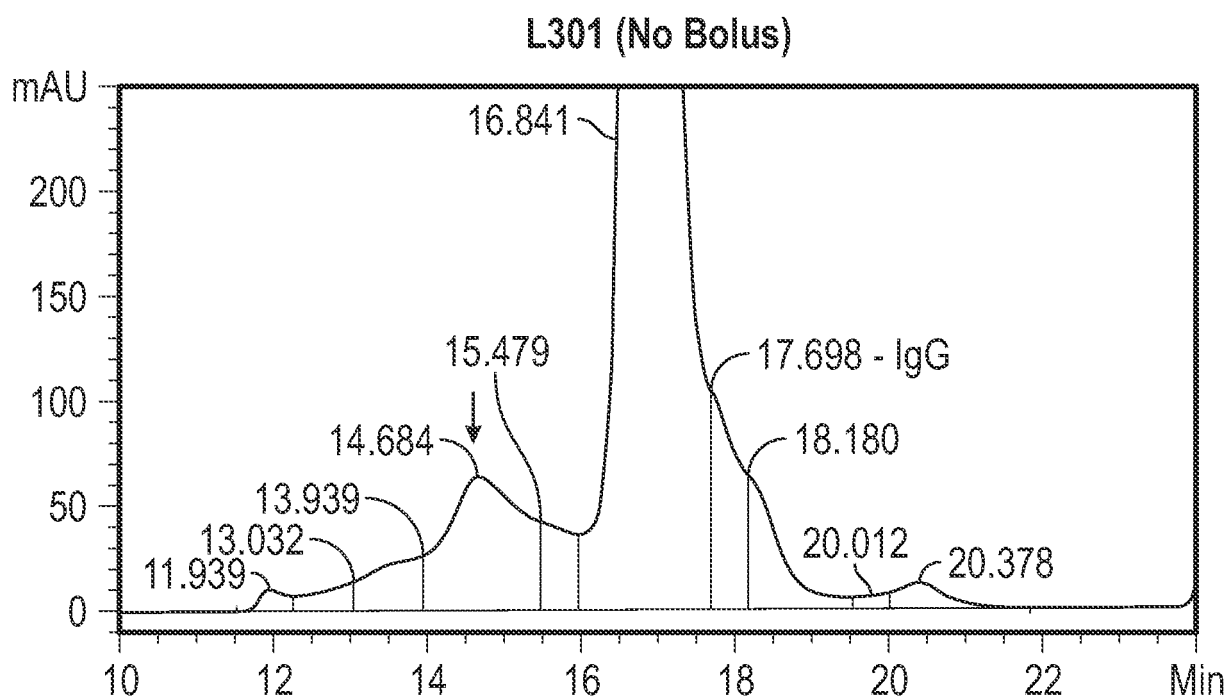
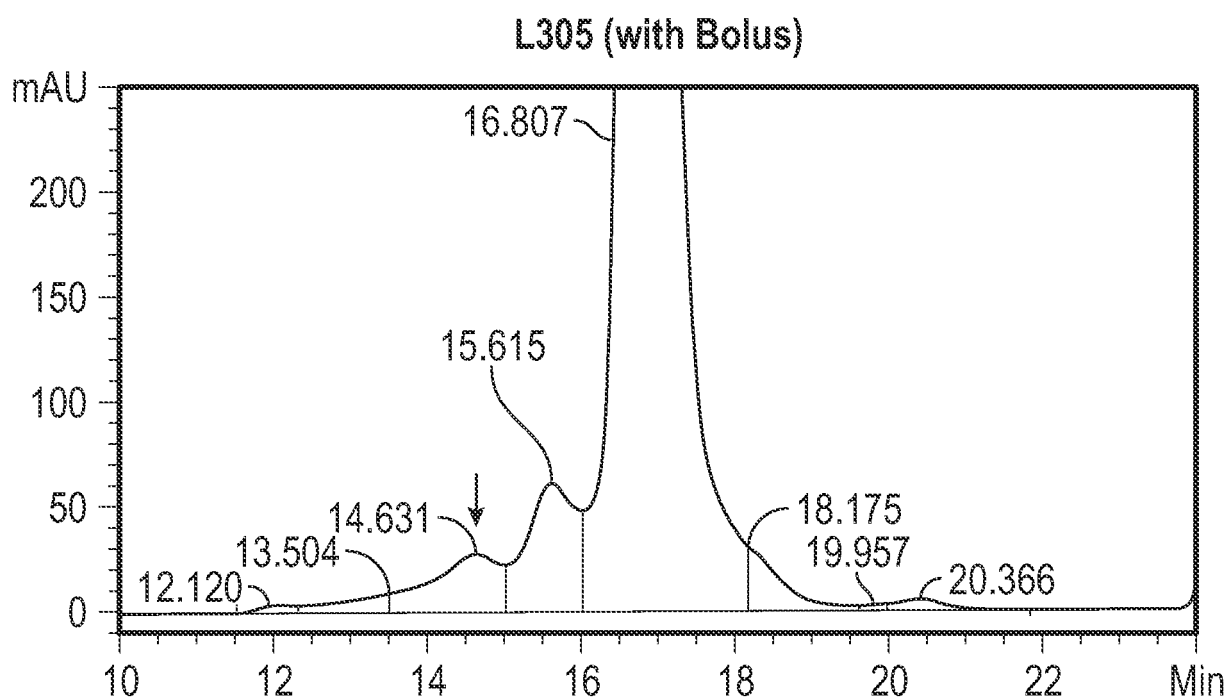
11/22

H1L1 Abundance

Run	Time Point	Ethanol Bolus	H1L1 Band
L412	T86	10 g/L	1177
L414	T86	None	3770
L415	T86	None	2219

FIG. 5C

12/22

**FIG. 6A****FIG. 6B**

13/22

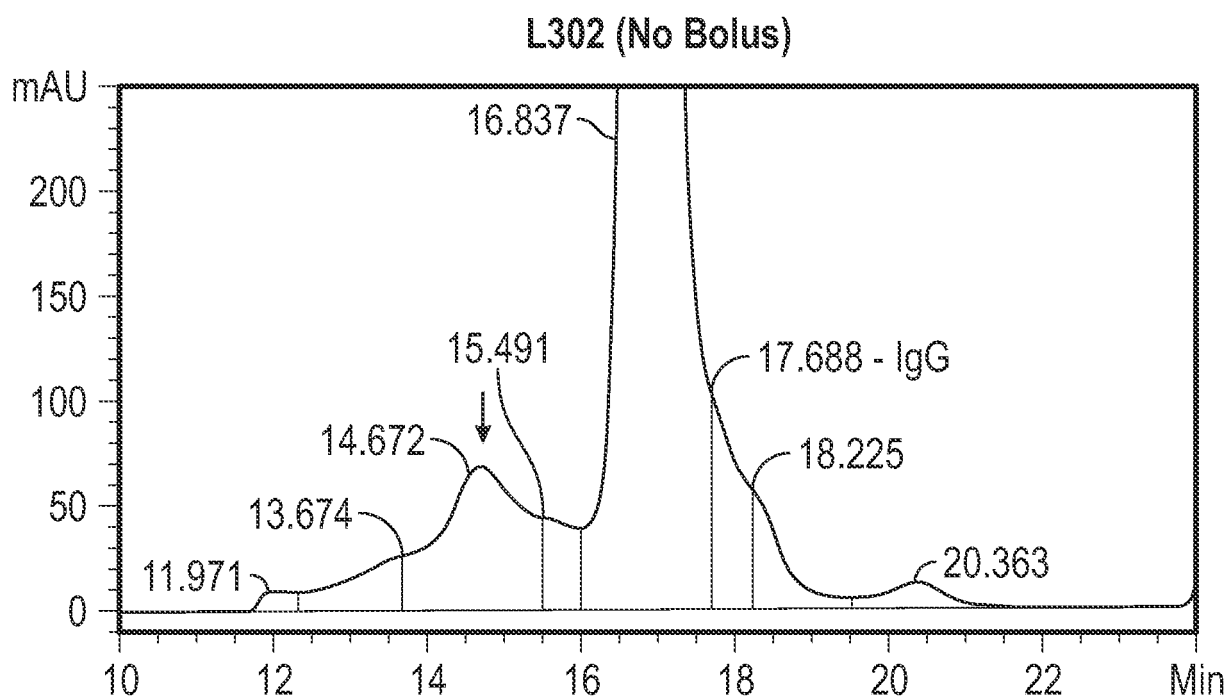


FIG. 6C

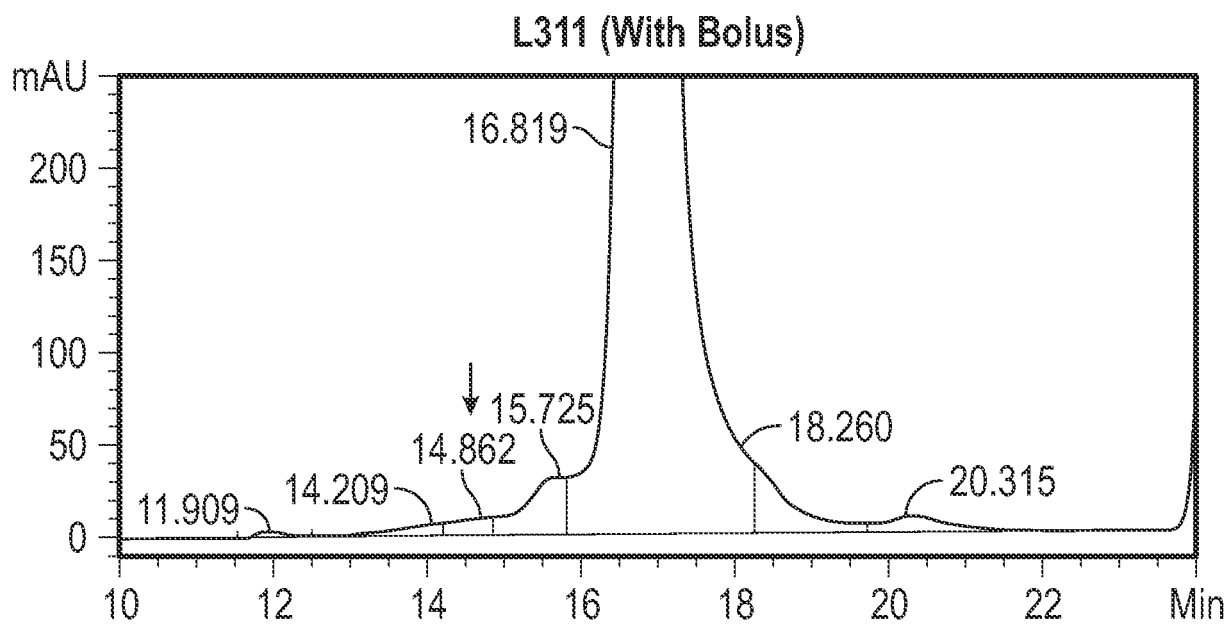


FIG. 6D

14/22

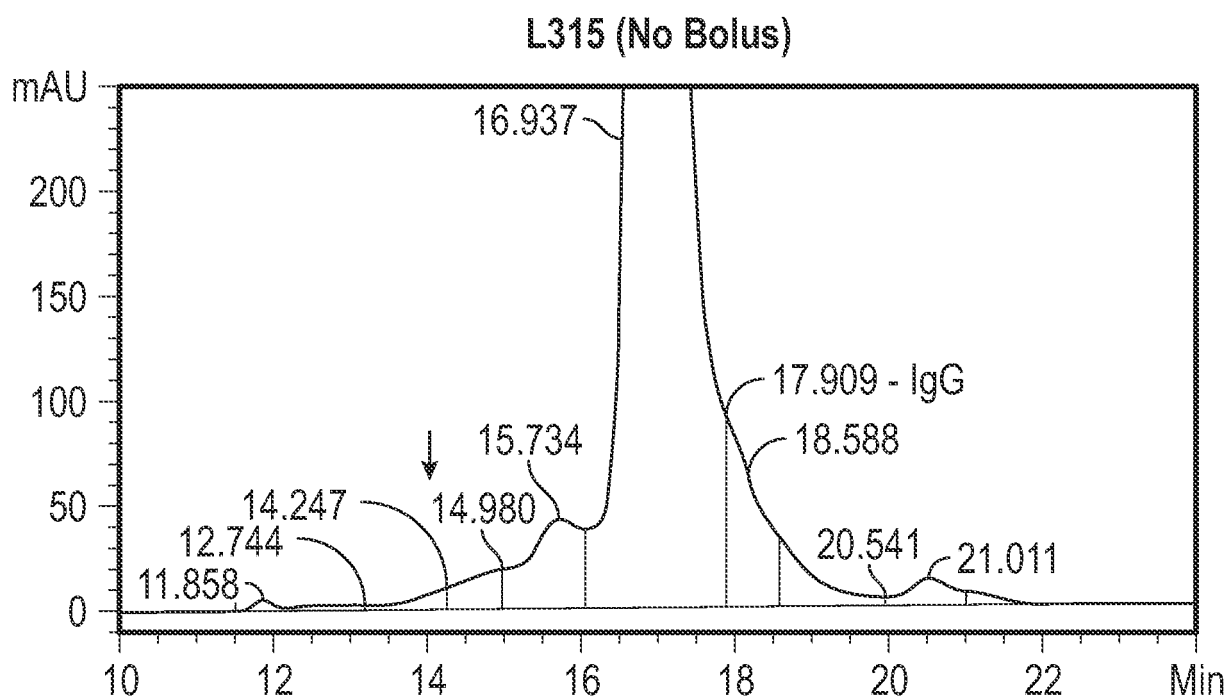


FIG. 6E

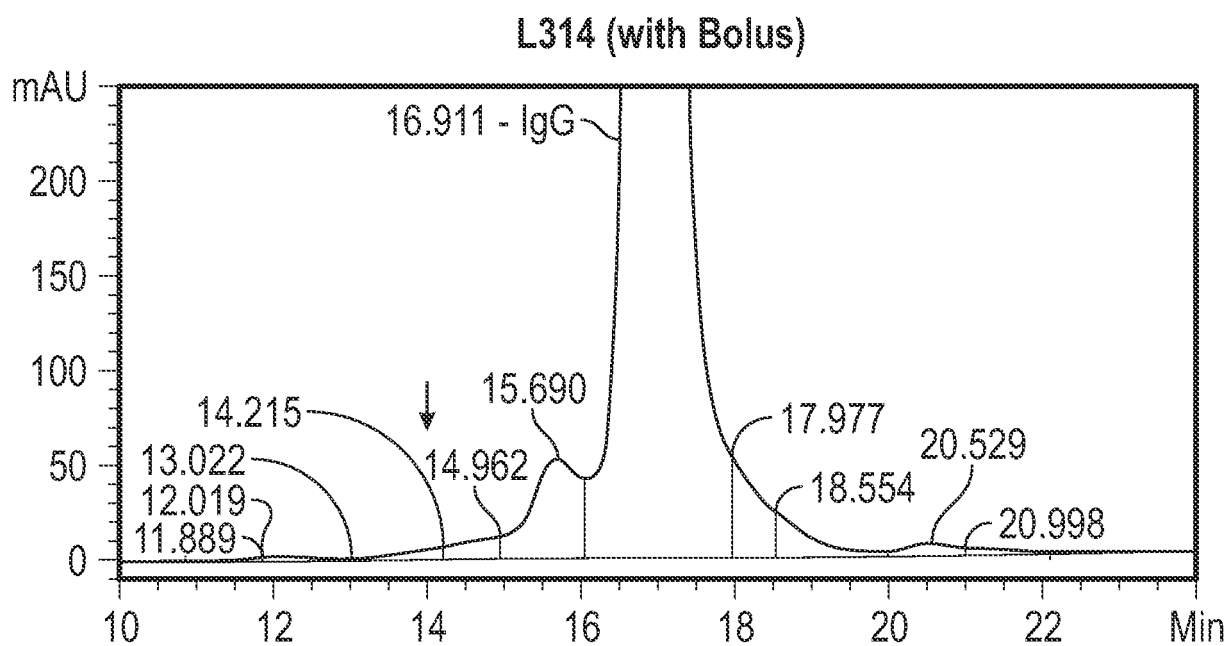


FIG. 6F

15/22

Run Number	Run Set	Ethanol Bolus	Sampled Elapsed Fermentation Time	SEC Main Peak % (Desired Antibody)
L301	1	None	T97	78%
L302	1	None	T97	79%
L305	1	10 g/L	T97	90%
L311	2	10 g/L	T97	94%
L315	3	None	T87	87%
L314	3	10 g/L	T87	91%
L399	4	10 g/L	T86	91%
L401	4	10 g/L	T86	87%
L402	4	None	T86	93%
L403	4	None	T86	74%
L404	4	None	T86	71%

FIG. 7

16/22

Run Number	Ethanol Bolus	Sampled Elapsed Fermentation Time	SEC Main Peak % (Desired Antibody)
L437	None	T67	71%
L441	None	T67	81%
L440	10 g/L	T67	80%
L442	10 g/L	T67	80%
L437	None	T87	59%
L441	None	T87	61%
L440	10 g/L	T87	77%
L442	10 g/L	T87	68%

FIG. 8

Run Number	Ethanol Bolus	Sampled Elapsed Fermentation Time	SEC Main Peak % (Desired Antibody)
L412	10 g/L	T85	89%
L414	None	T85	88%
L415	None	T85	89%

FIG. 9

Observed H1L1 Band	Relative Half Antibody (T17H Peptide) Percentage
+	2.3%
+++++	26.1%

FIG. 10

17/22

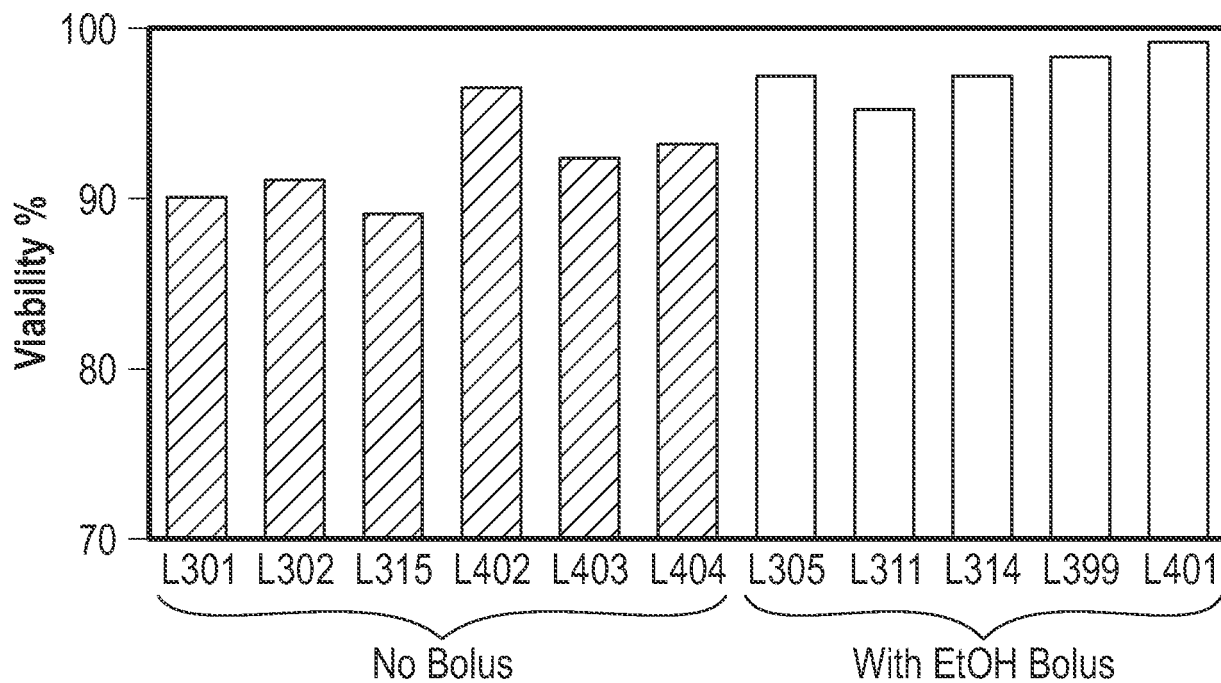


FIG. 11

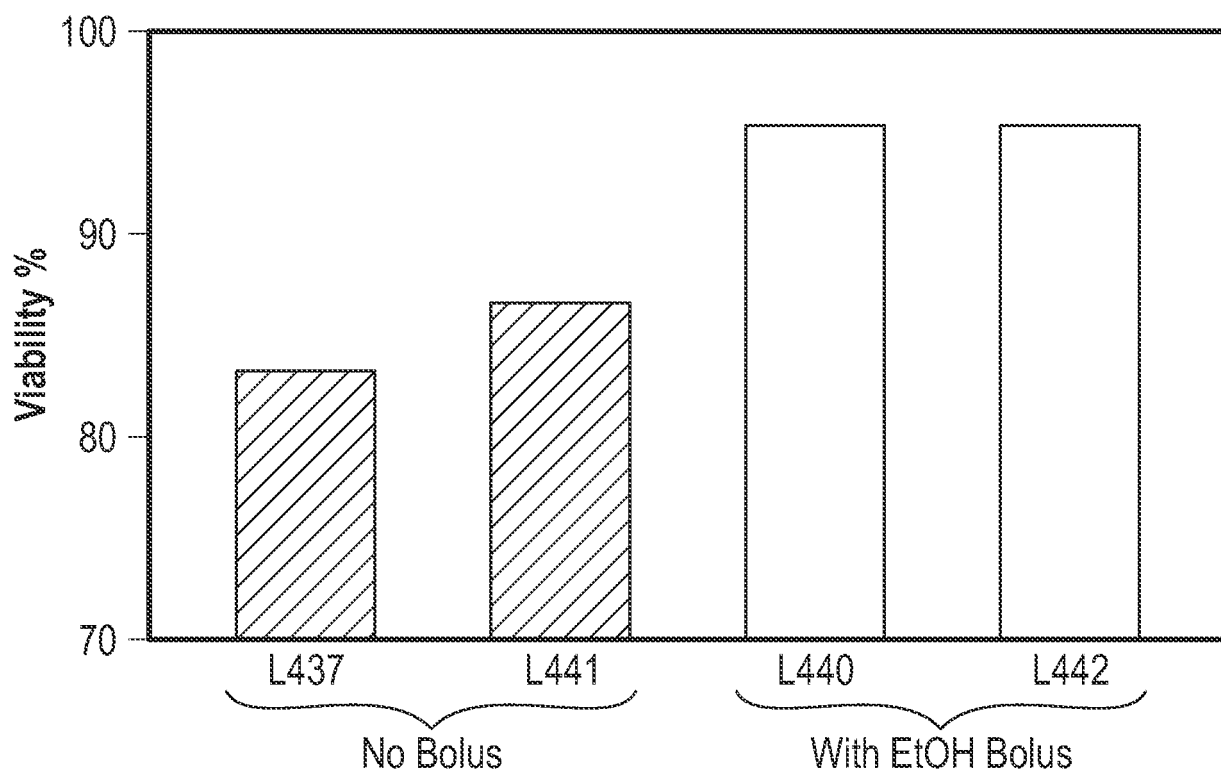


FIG. 12

18/22

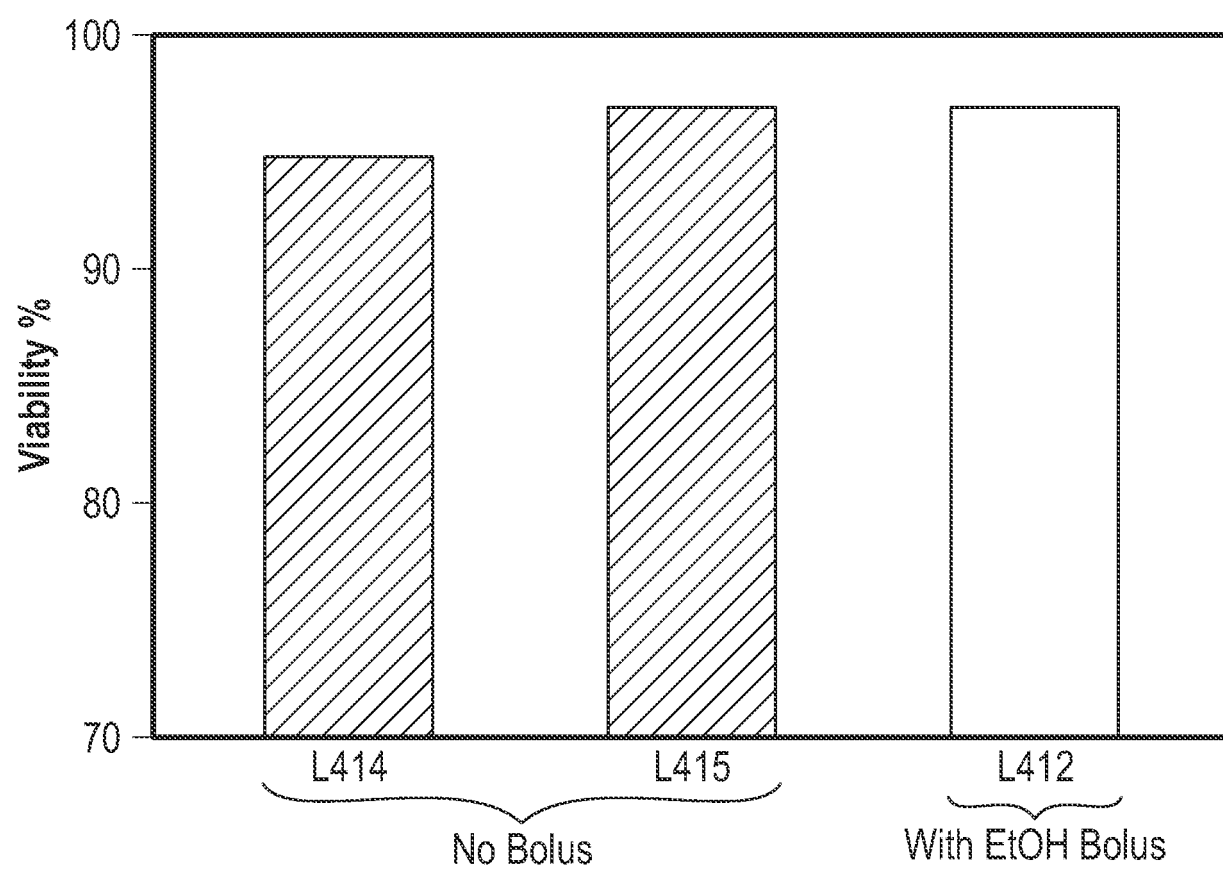
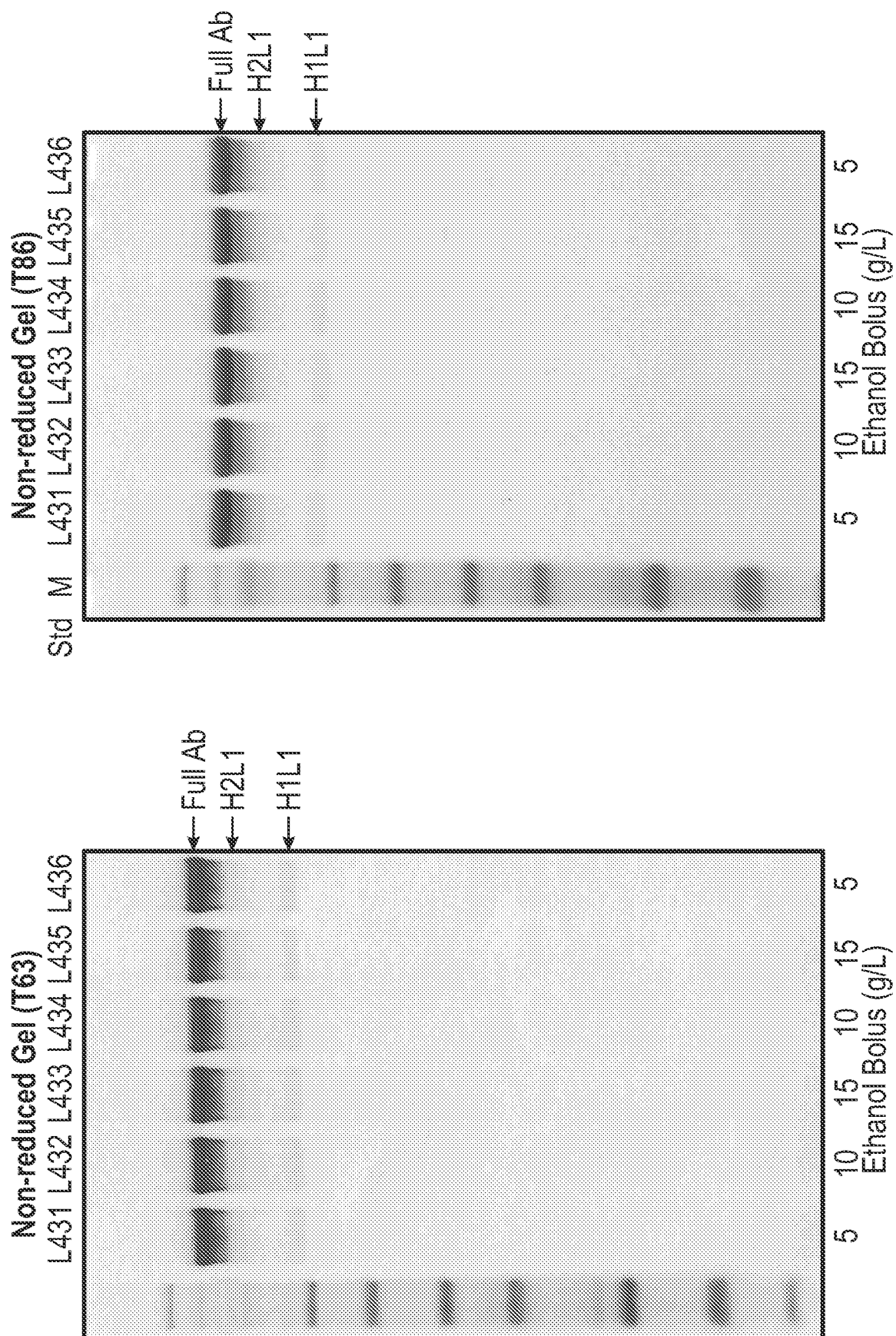


FIG. 13

19/22



20/22

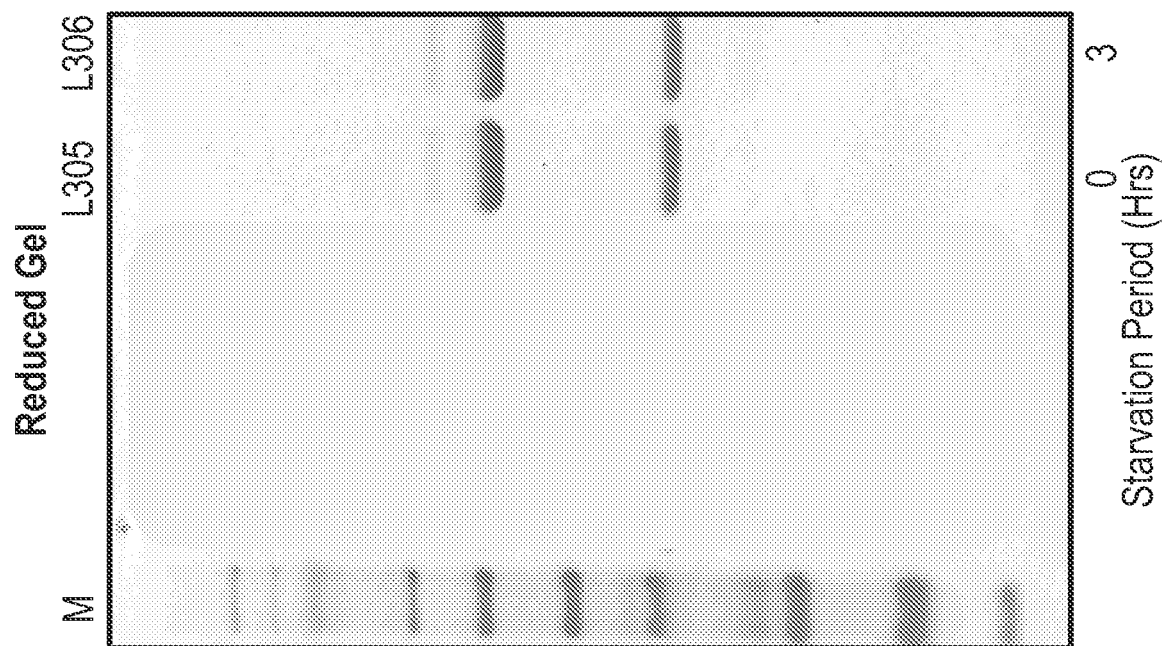


FIG. 15B

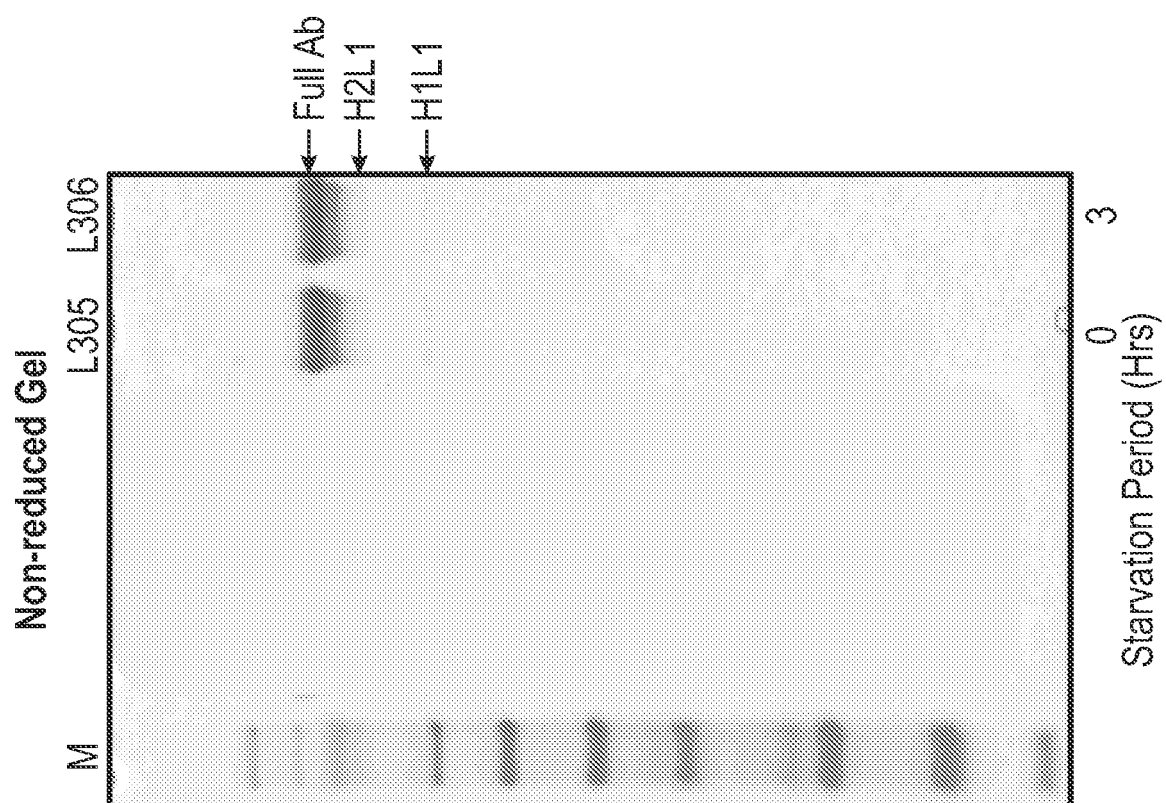


FIG. 15A

21/22

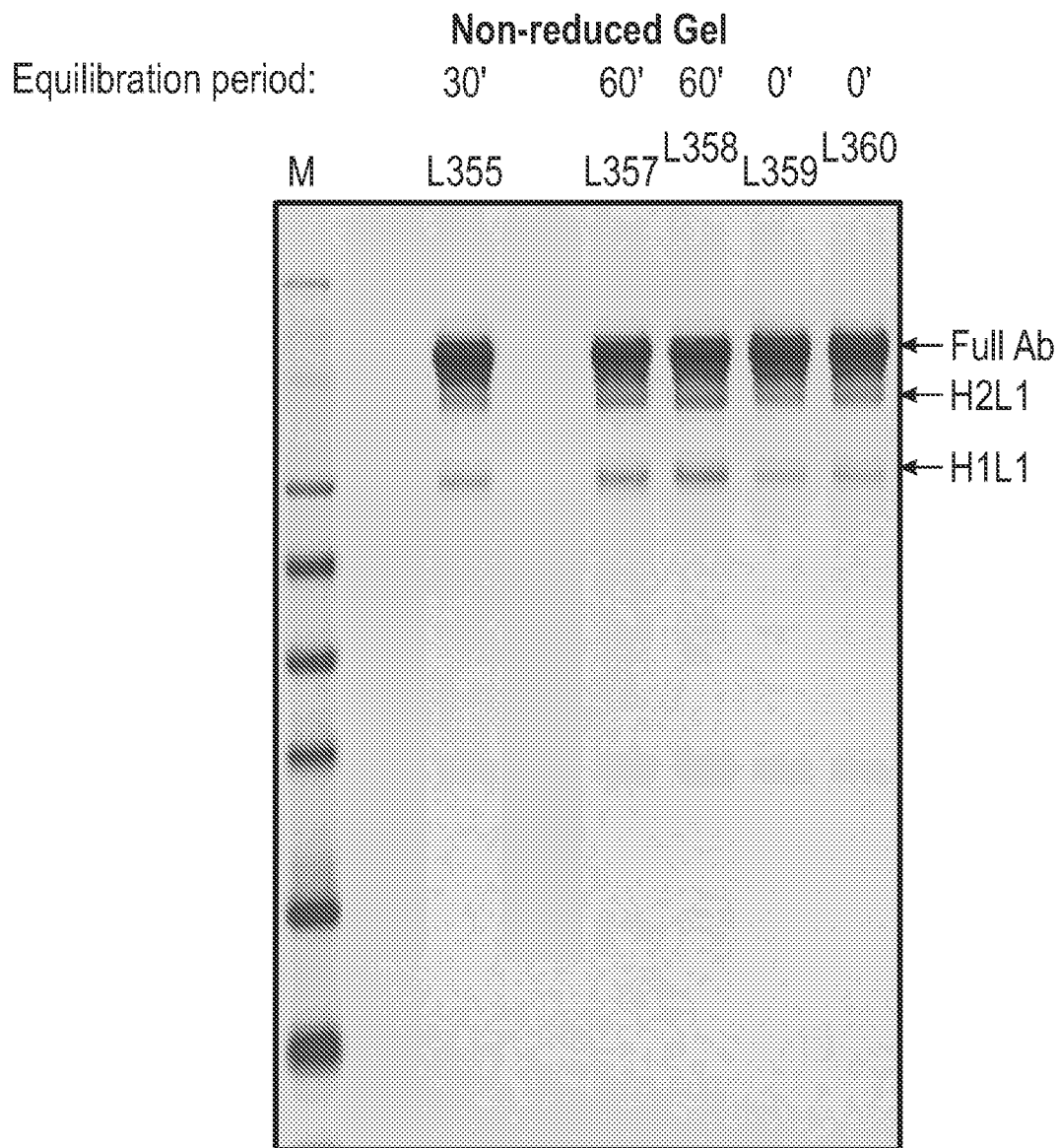


FIG. 16A

22/22

Viability at 23 Hours

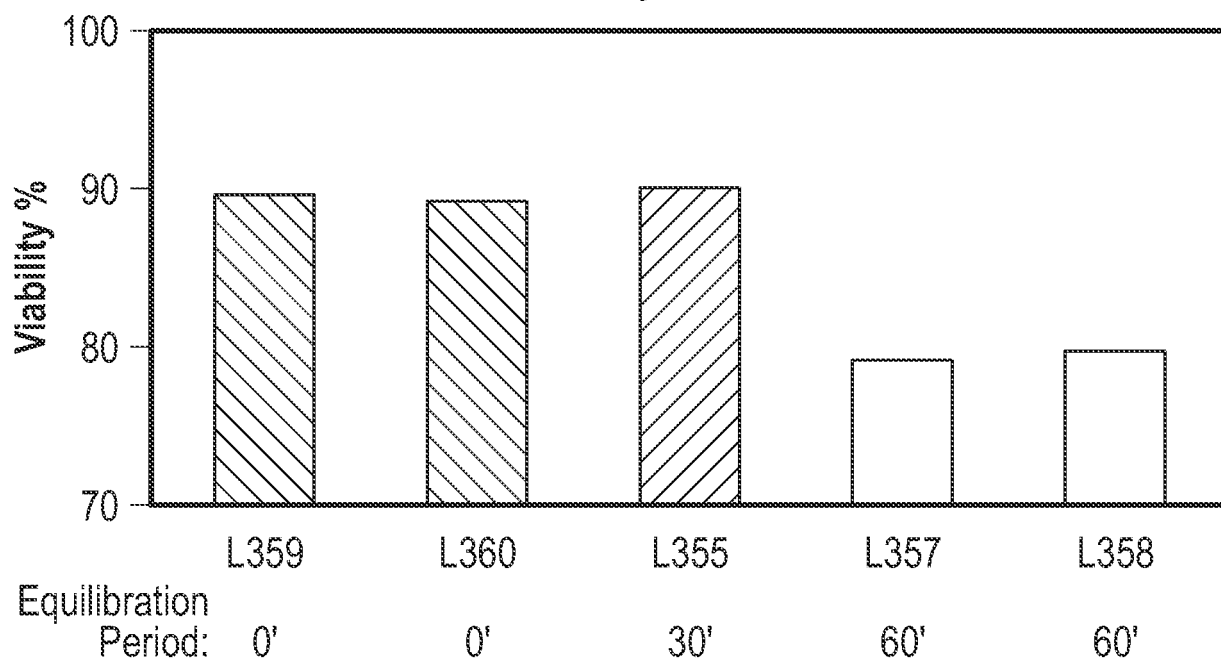


FIG. 16B

Viability at 85 Hours

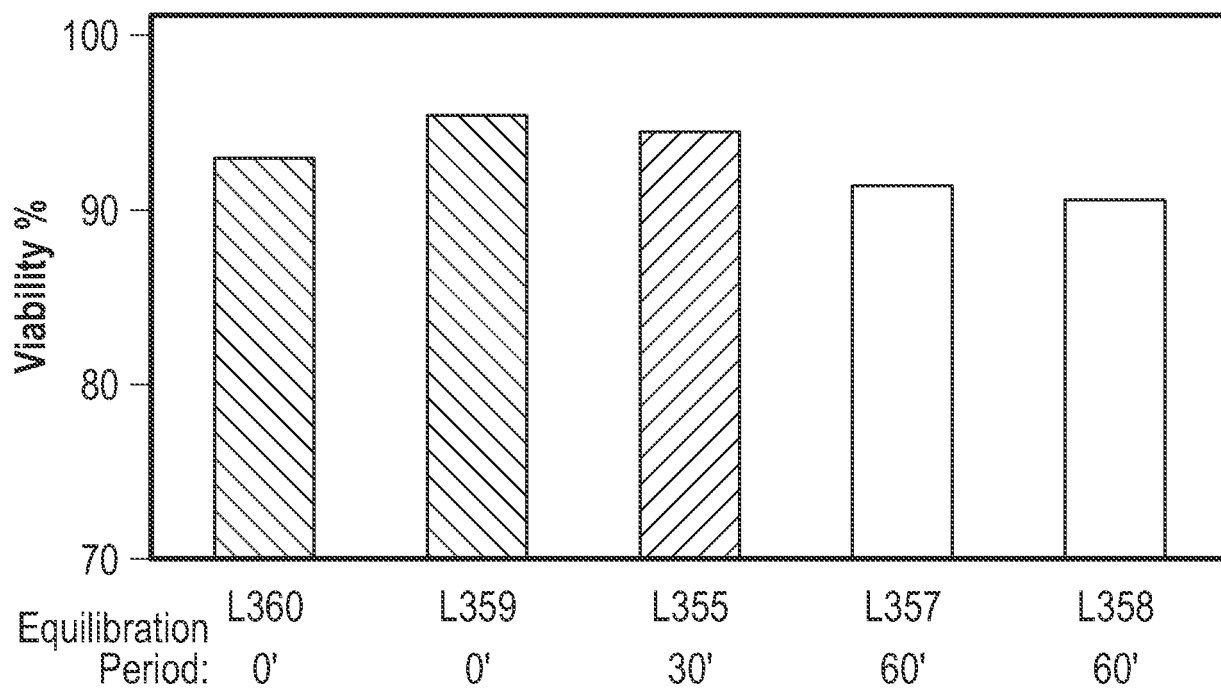


FIG. 16C