

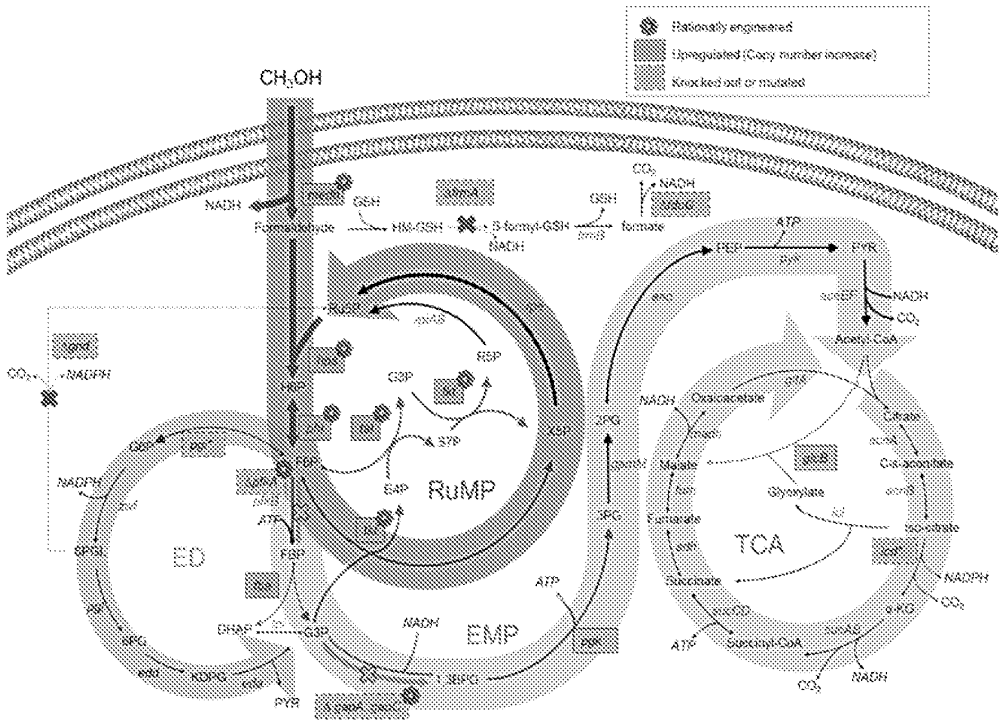


FIG. 1A

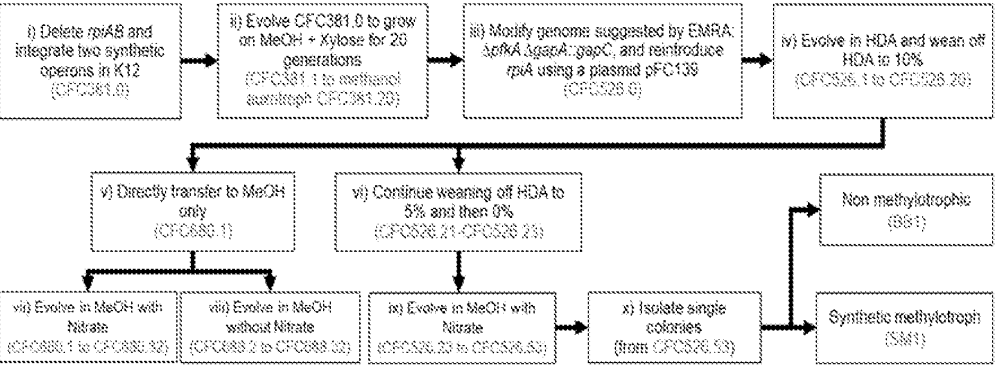


FIG. 1B

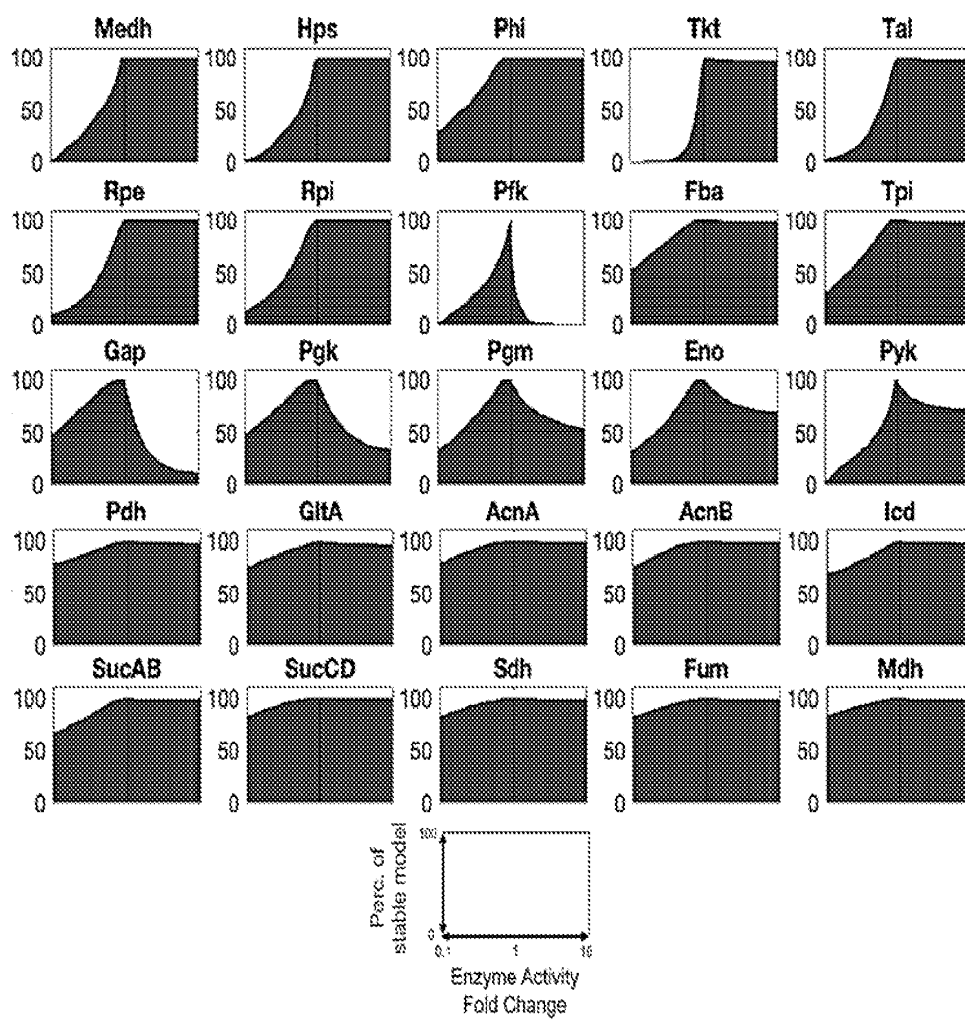


FIG. 2

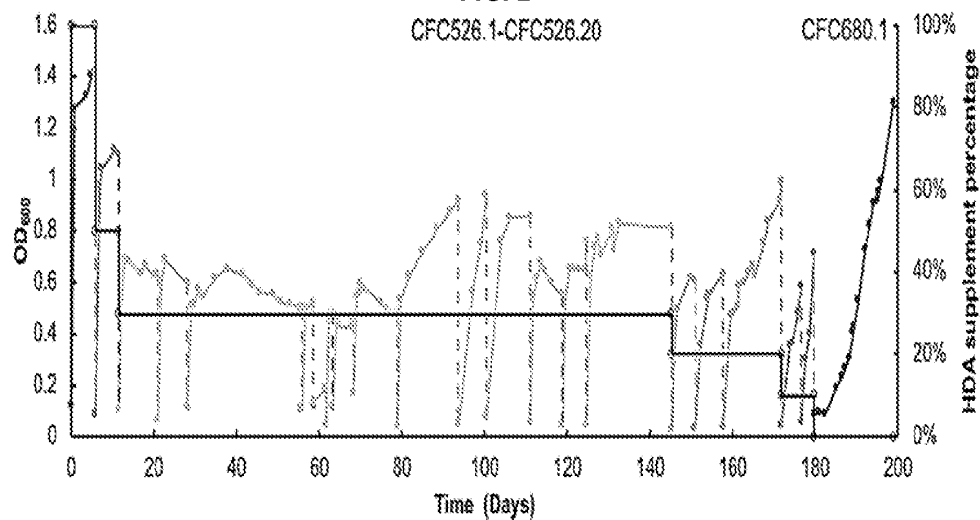


FIG. 3A

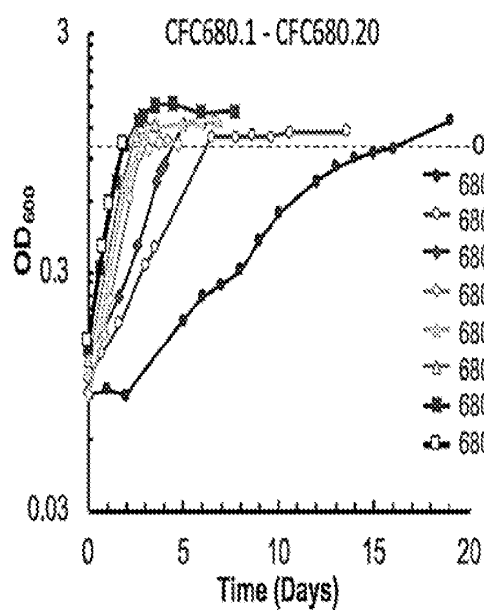
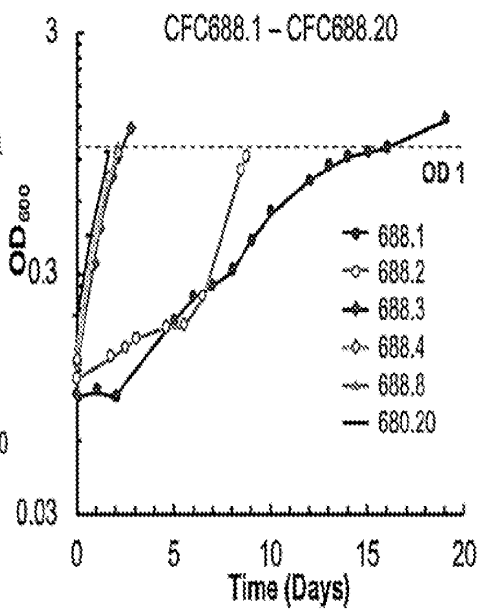
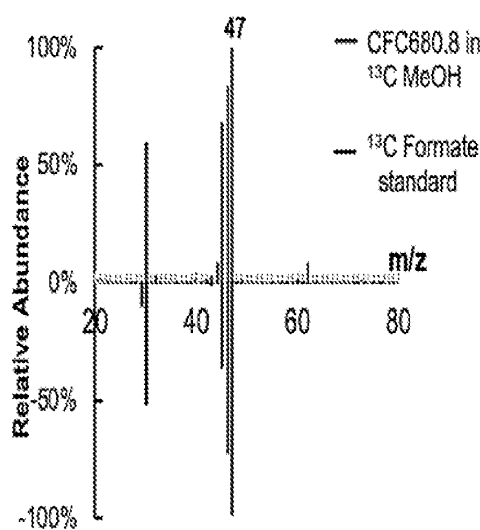


FIG. 3D

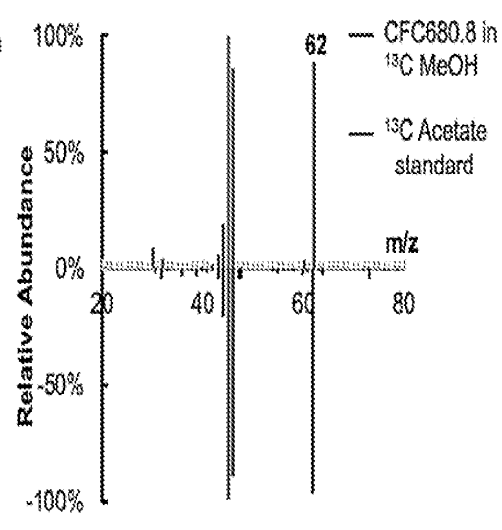


FIG. 3E

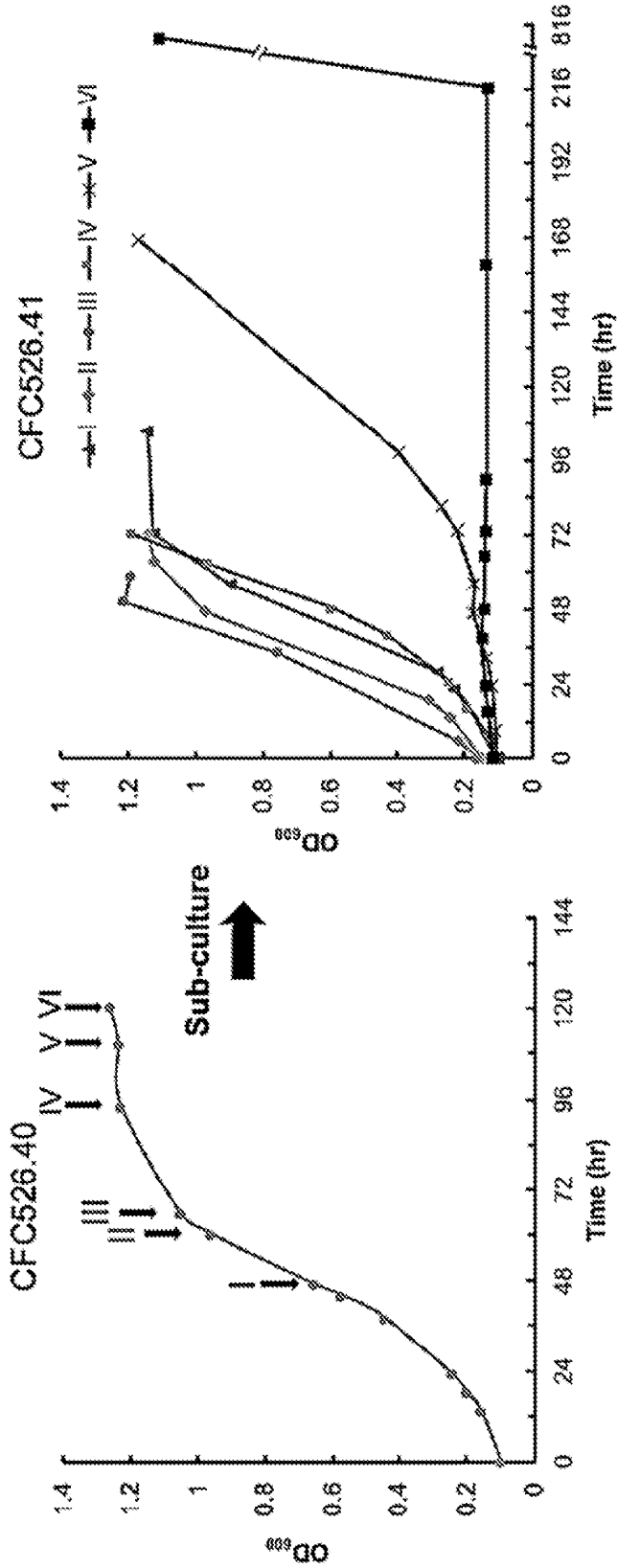


FIG. 4A

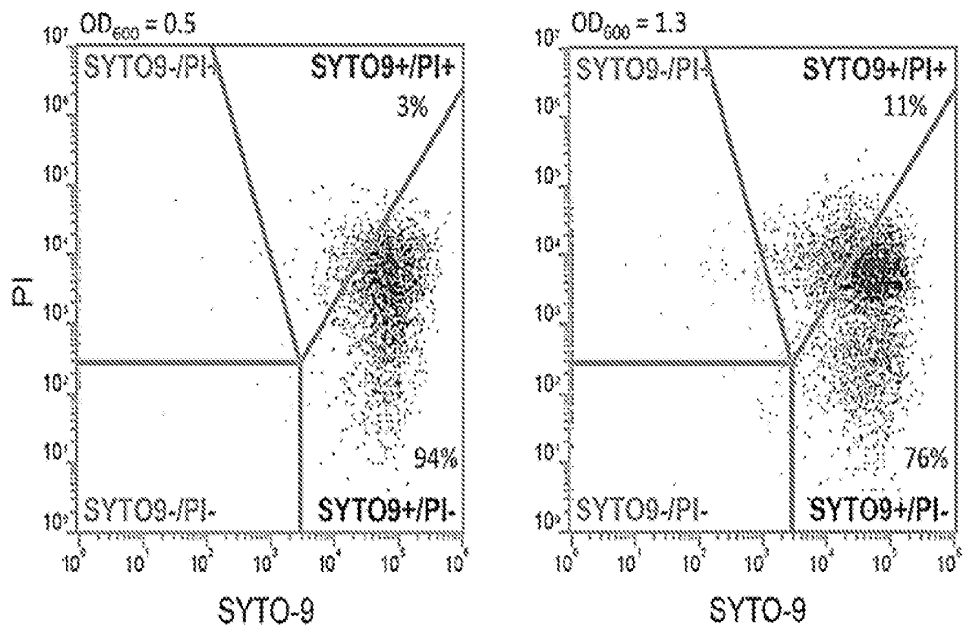


FIG. 4B

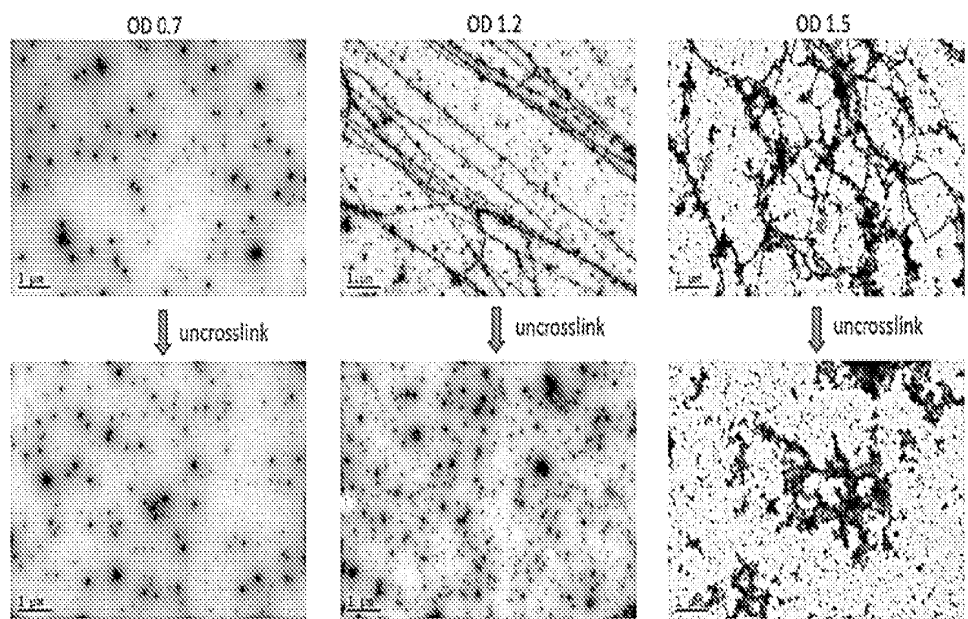


FIG. 4C

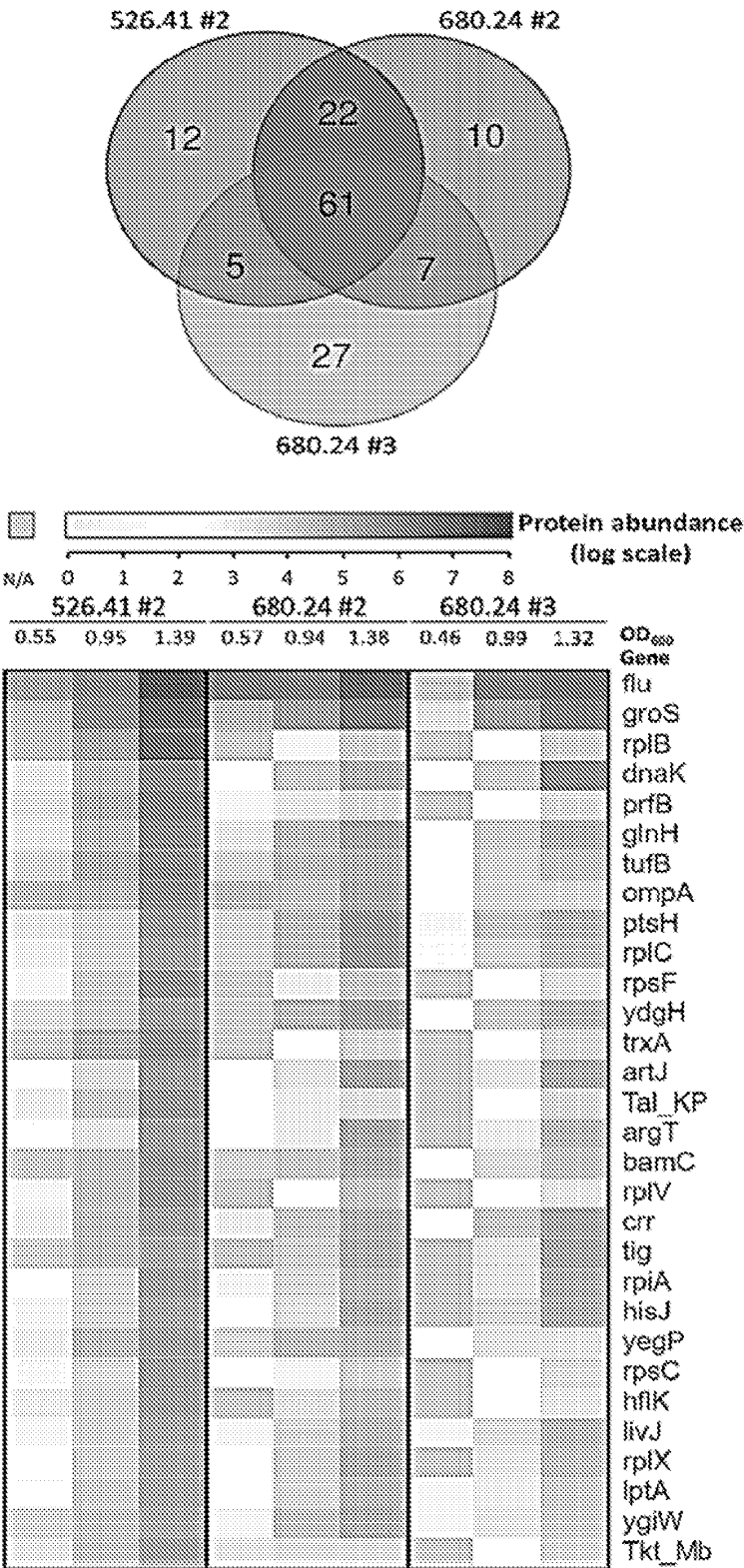


FIG. 4D

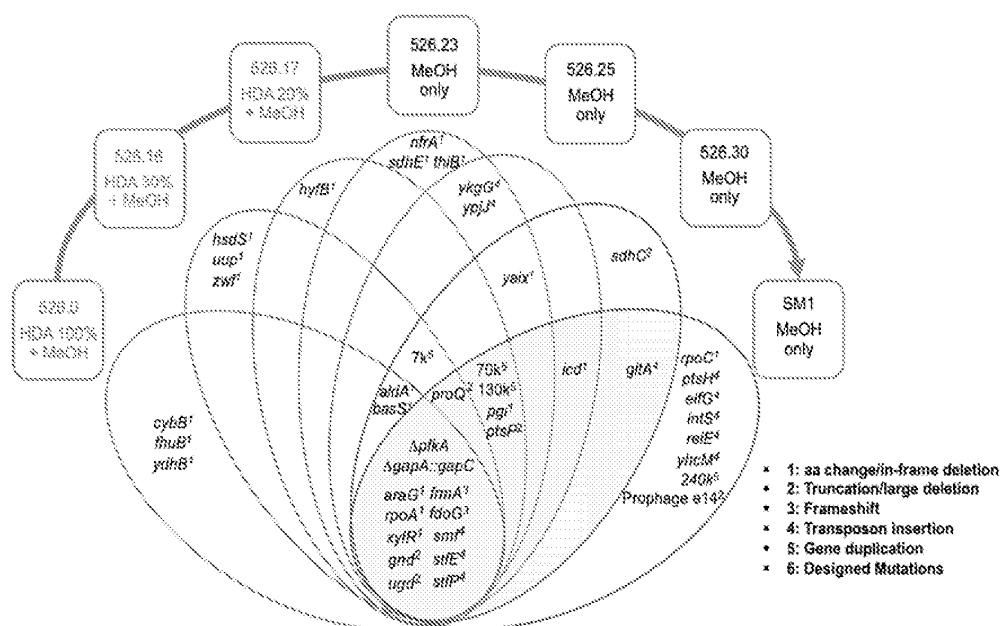


FIG. 5A

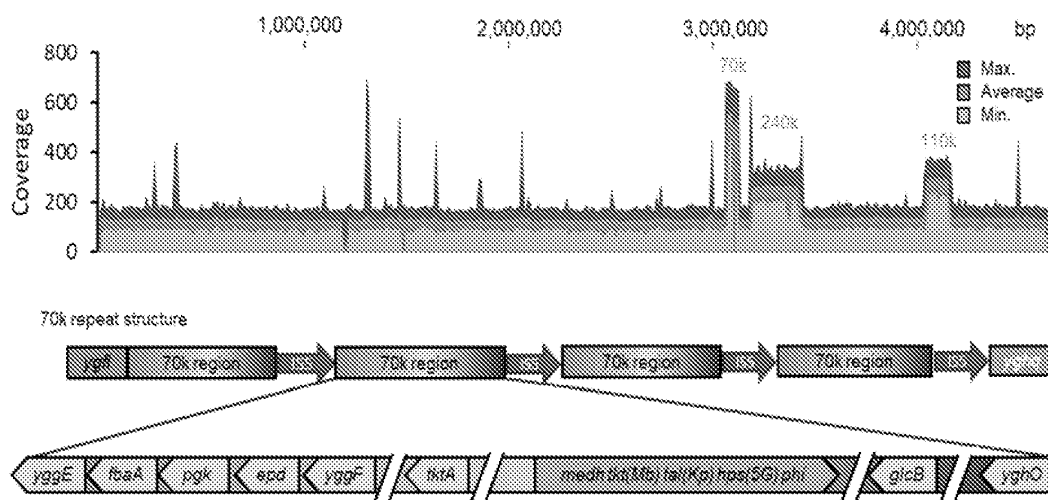


FIG. 5B

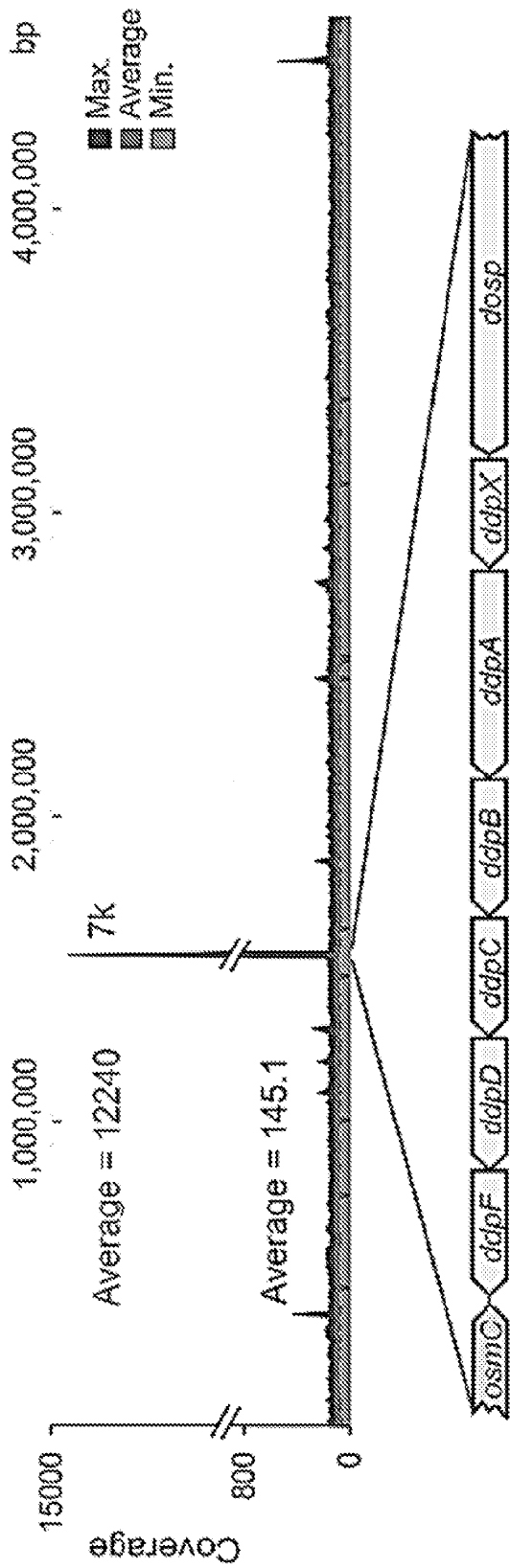


FIG. 5C

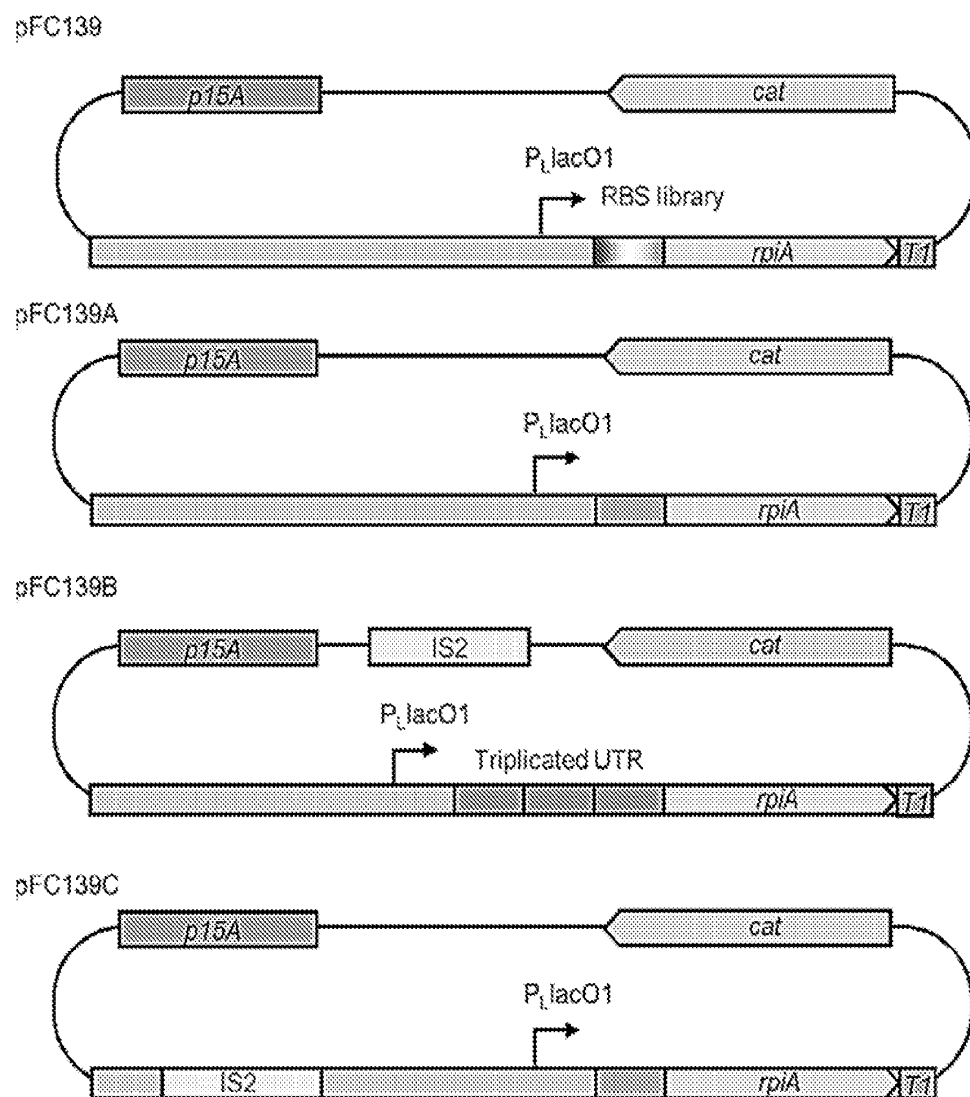


FIG. 5D

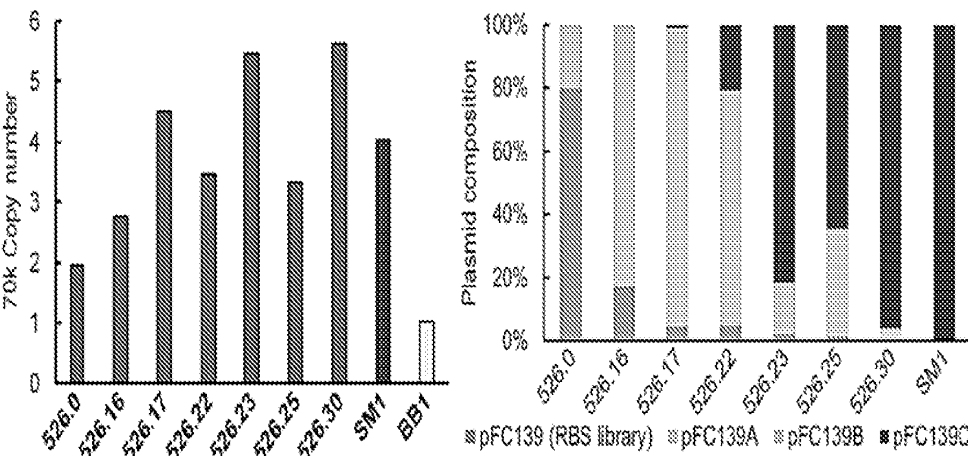


FIG. 6A

FIG. 6B

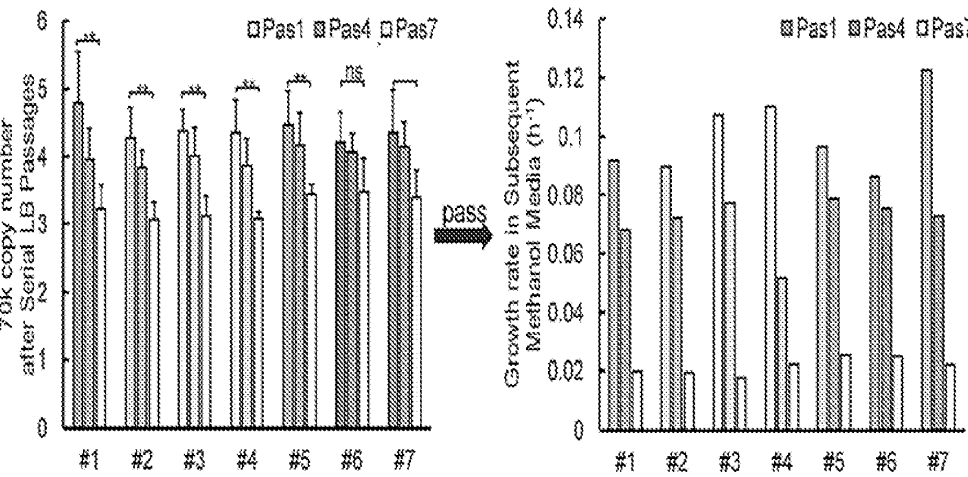


FIG. 6C

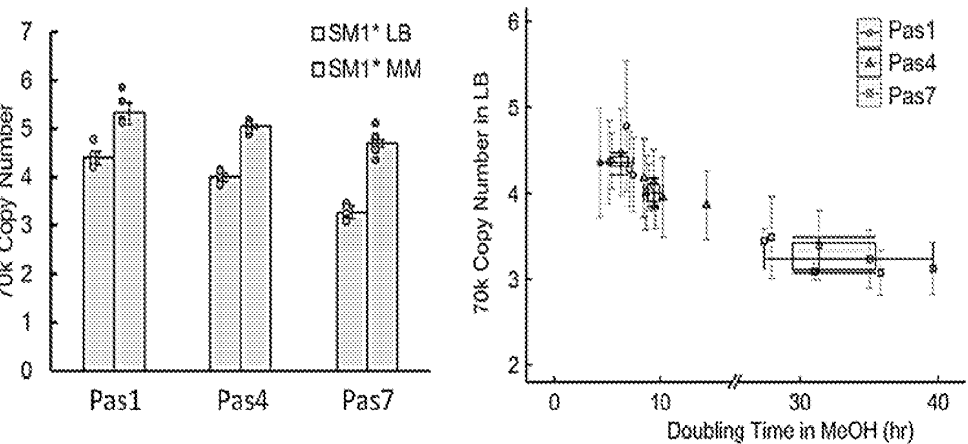


FIG. 6D

FIG. 6E

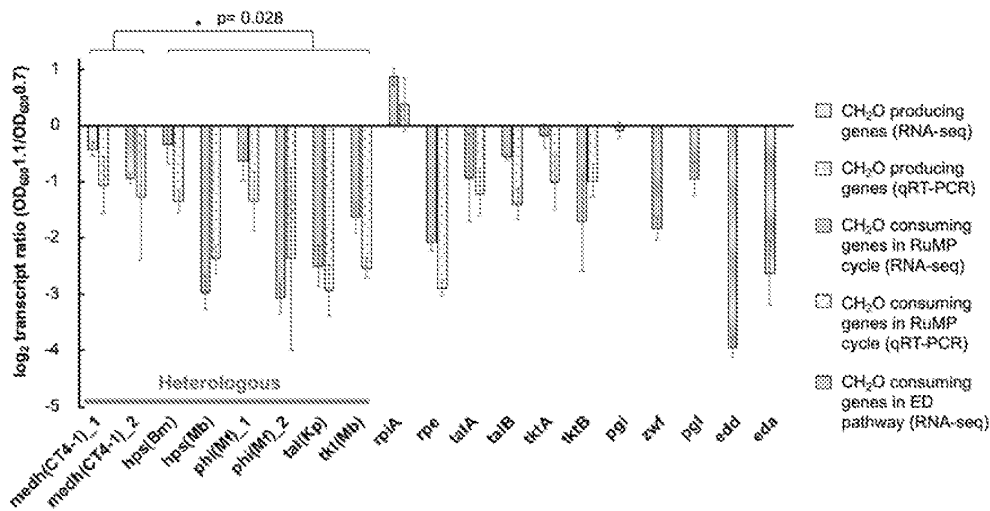


FIG. 7A

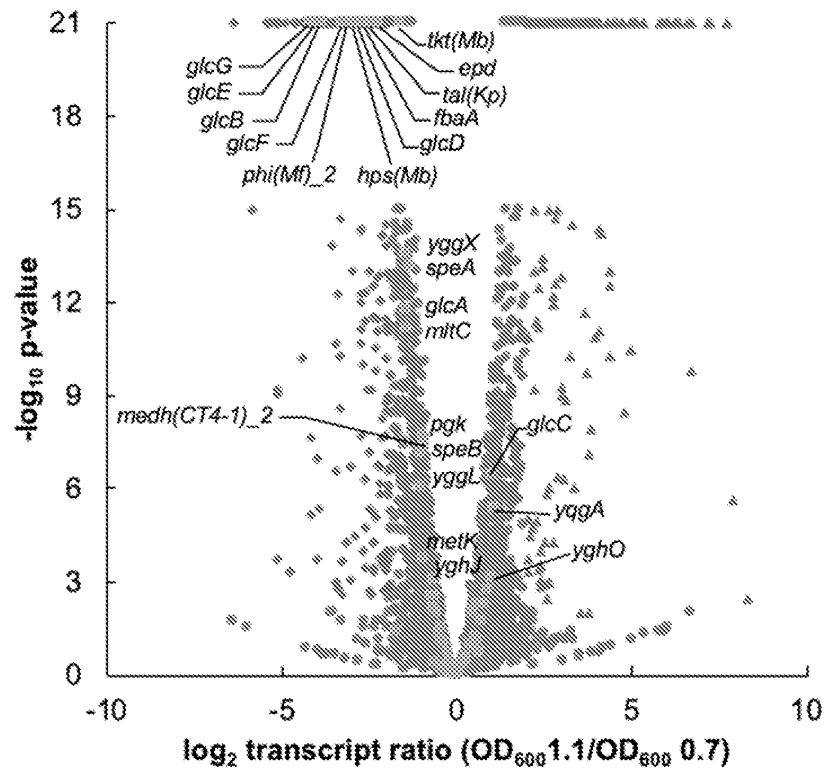


FIG. 7B

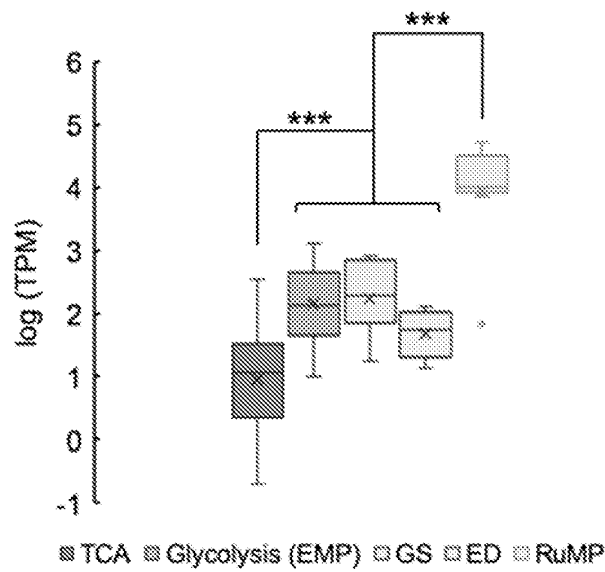


FIG. 7C

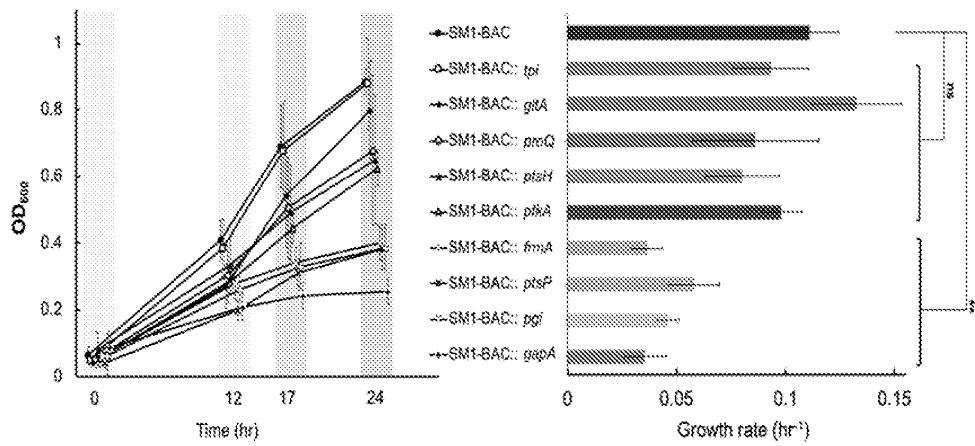


FIG. 7D

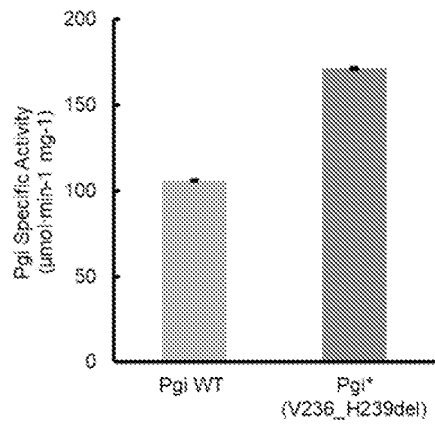


FIG. 7E

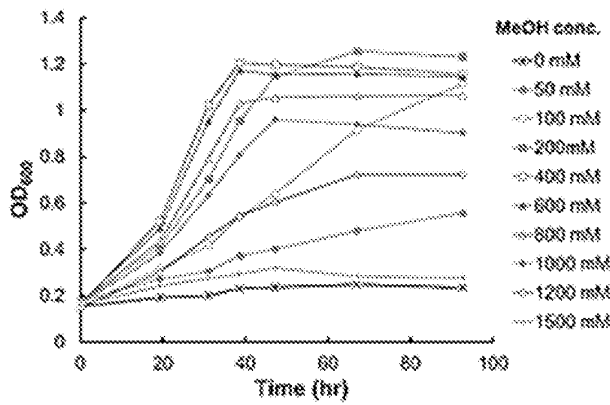


FIG. 7F

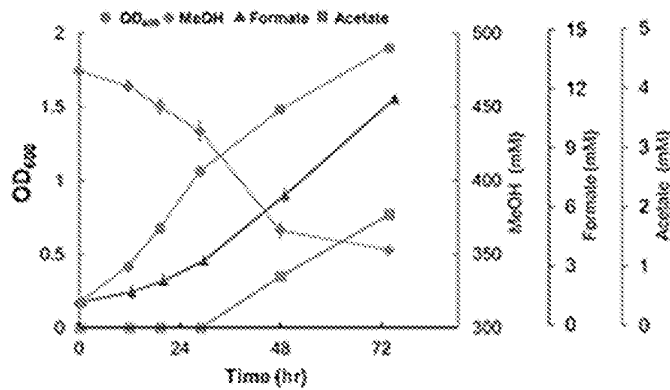


FIG. 7G

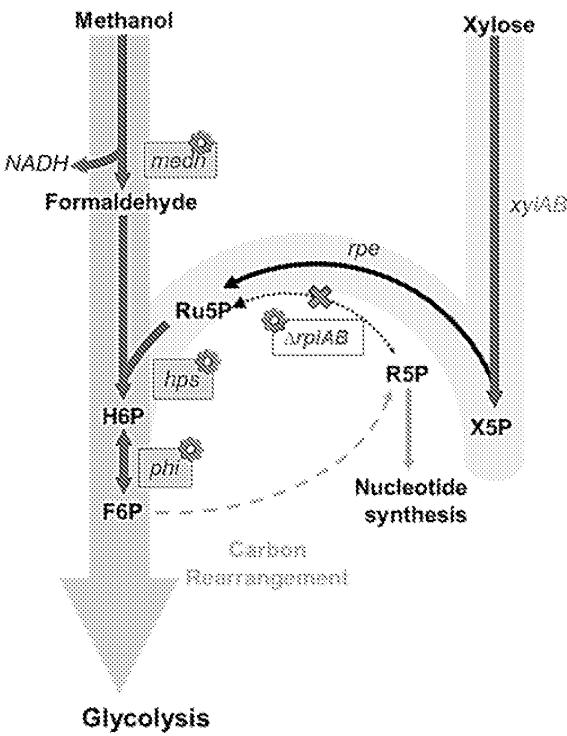


FIG. 8A

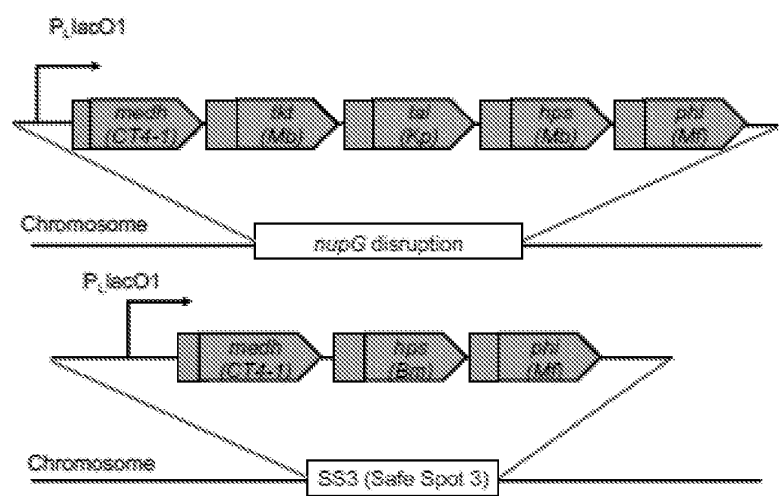


FIG. 8B

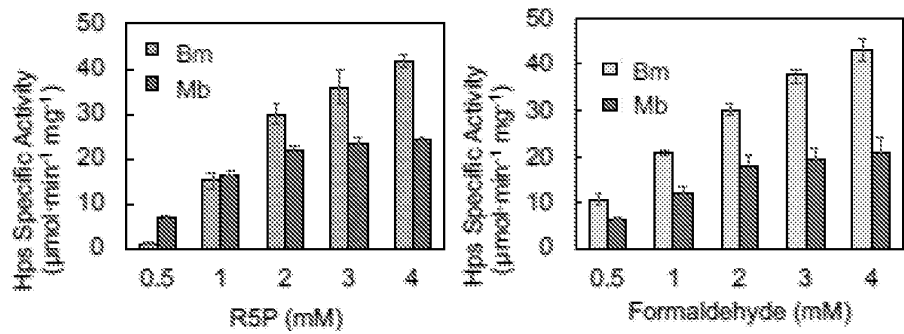


FIG. 8C

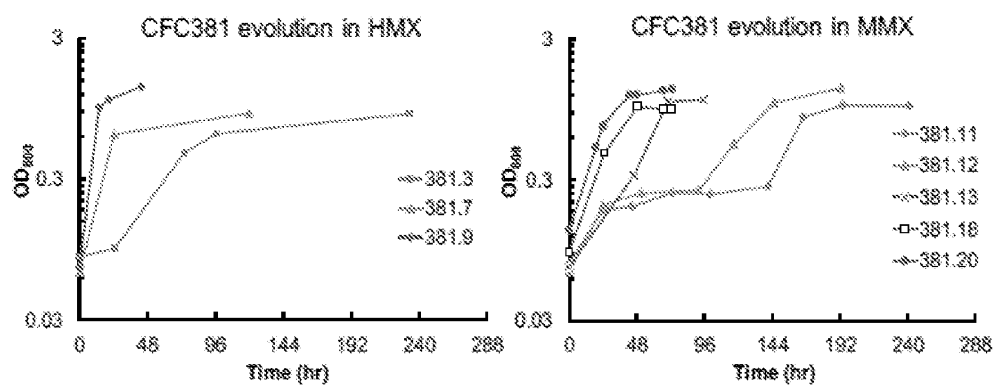


FIG. 8D

FIG. 8E

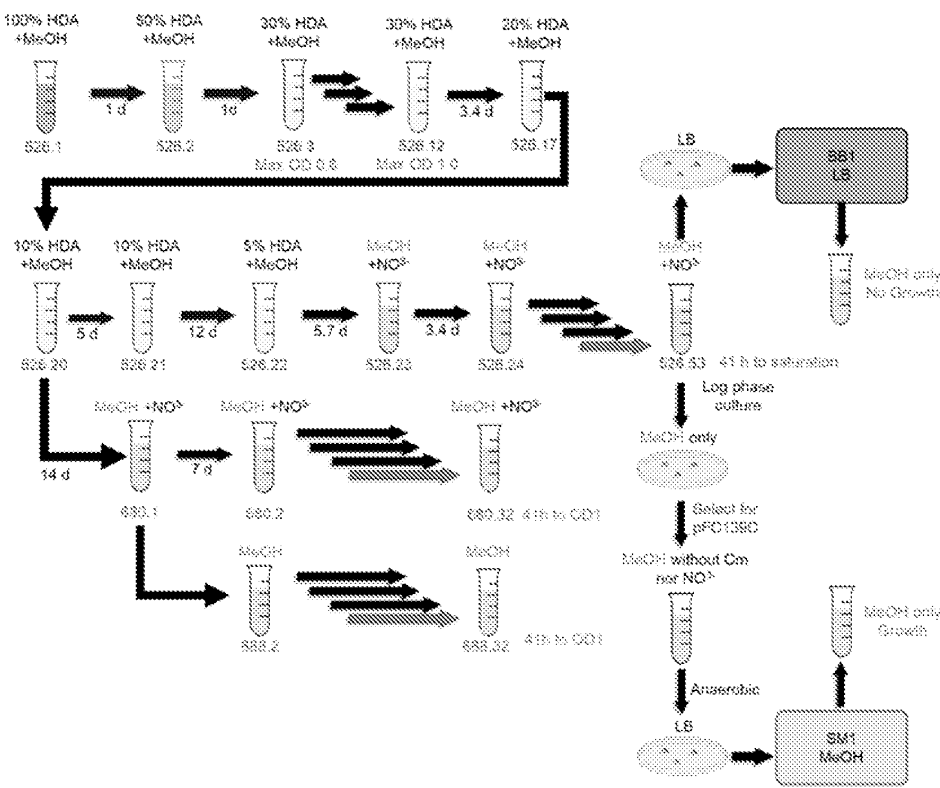


FIG. 9A

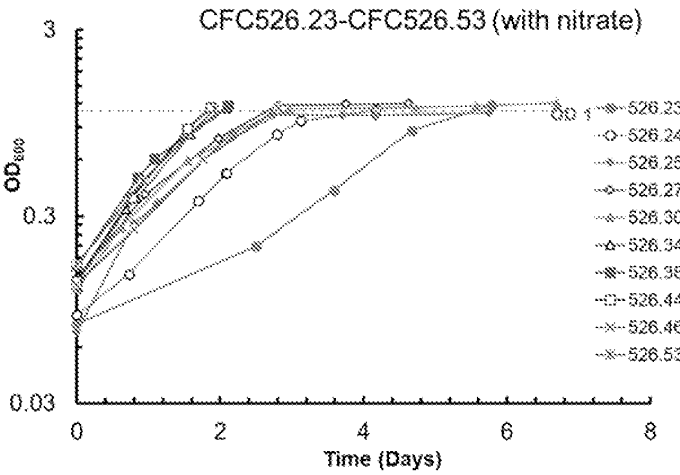


FIG. 9B

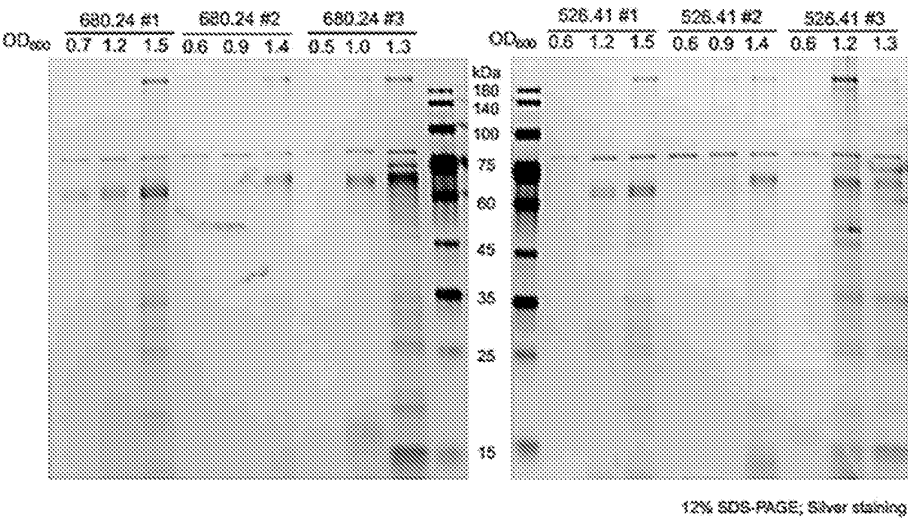


FIG. 10A

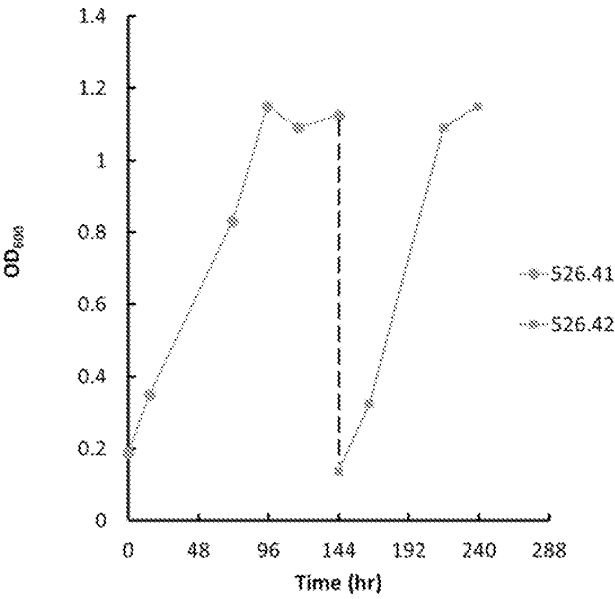


FIG. 10B

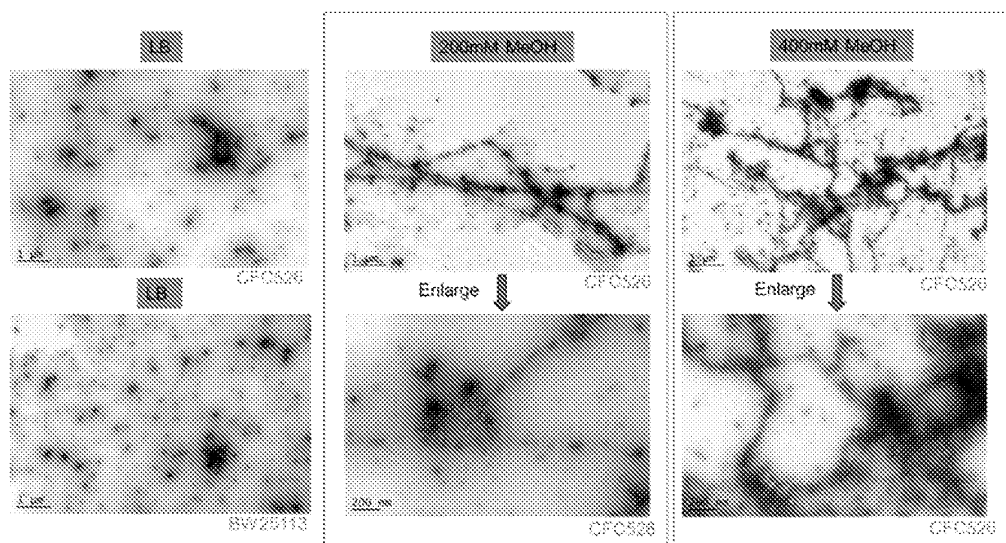


FIG. 10C

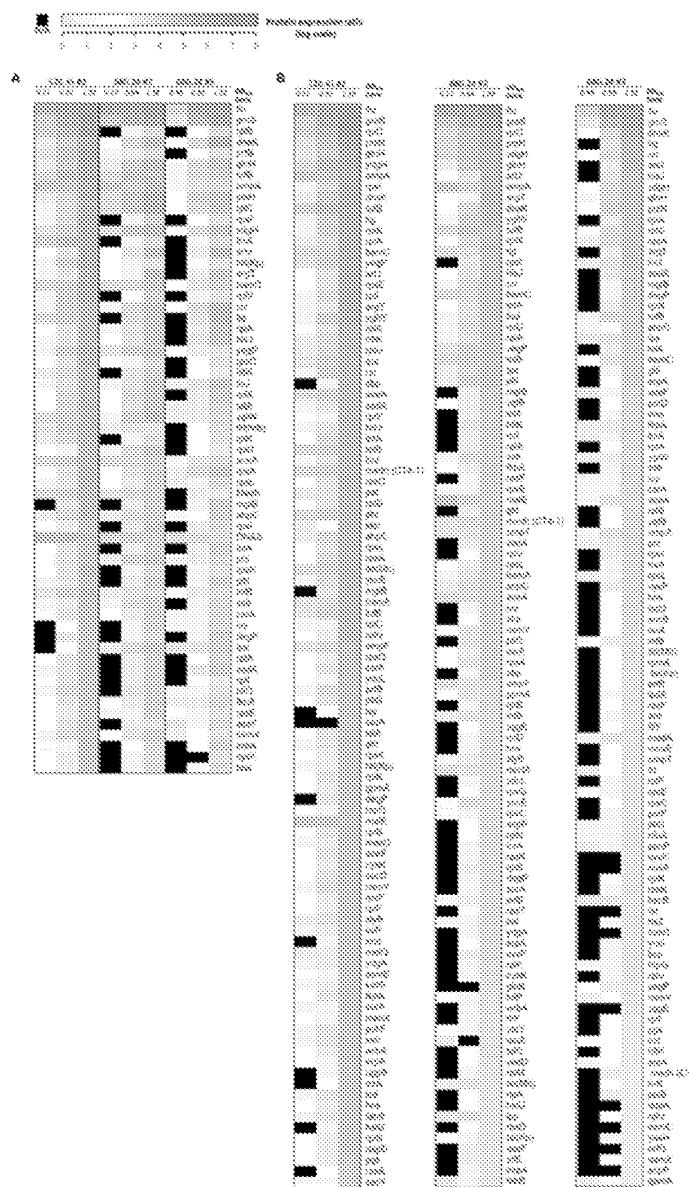


FIG. 11A

FIG. 11B

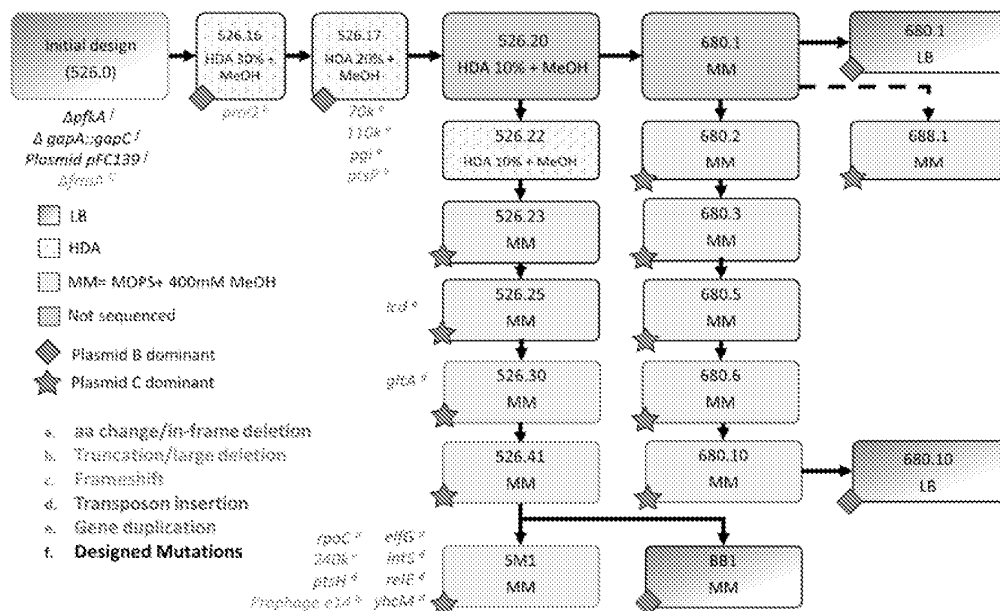


FIG. 12

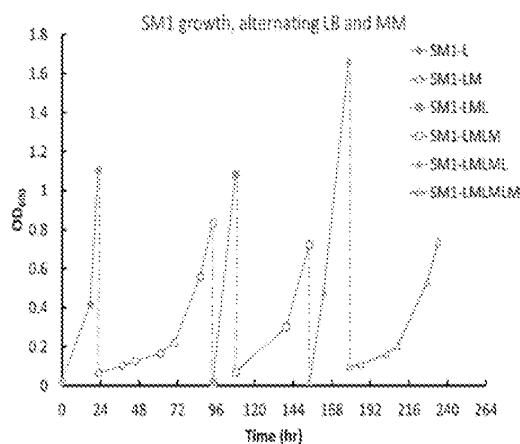


FIG. 13A

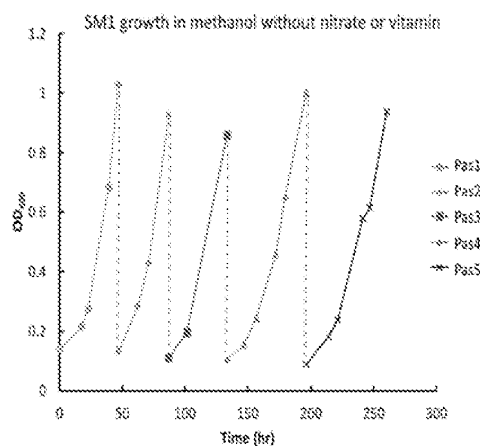


FIG. 13B

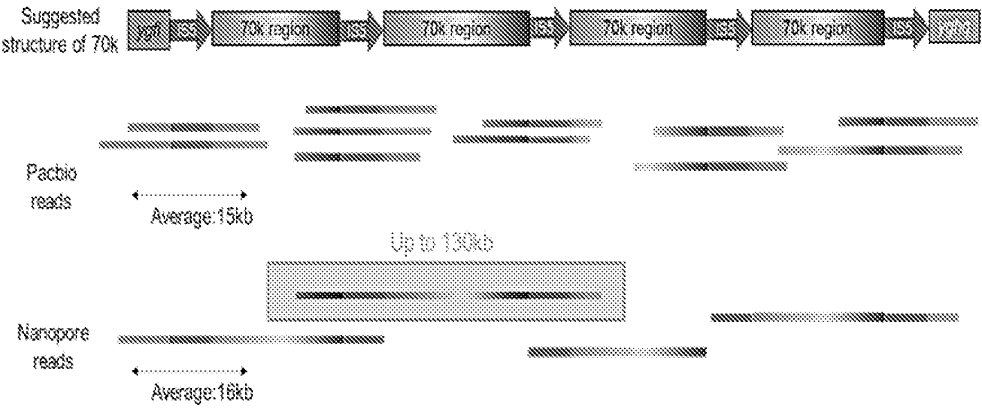


FIG. 14A

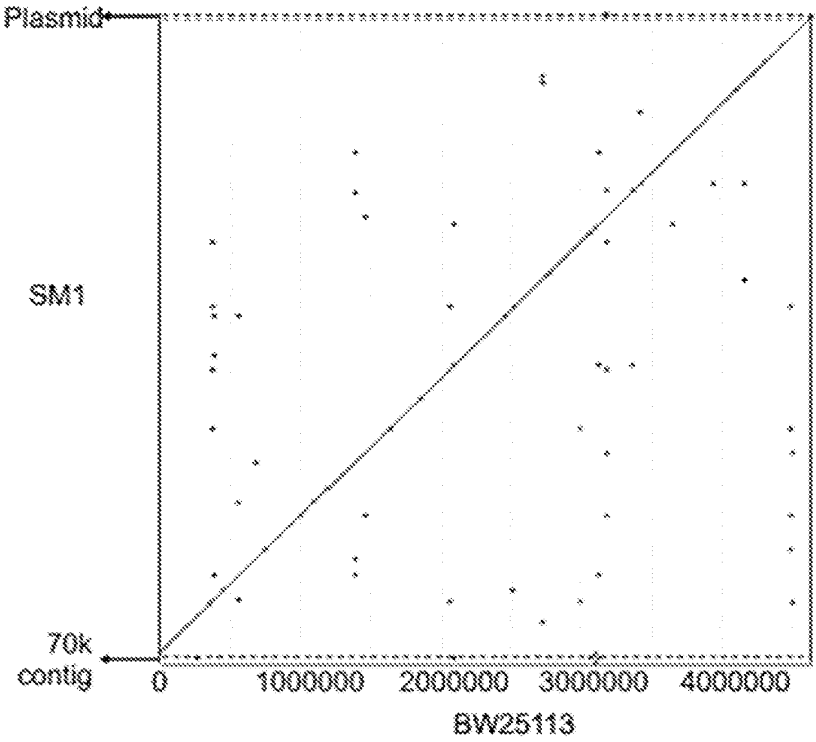


FIG. 14B

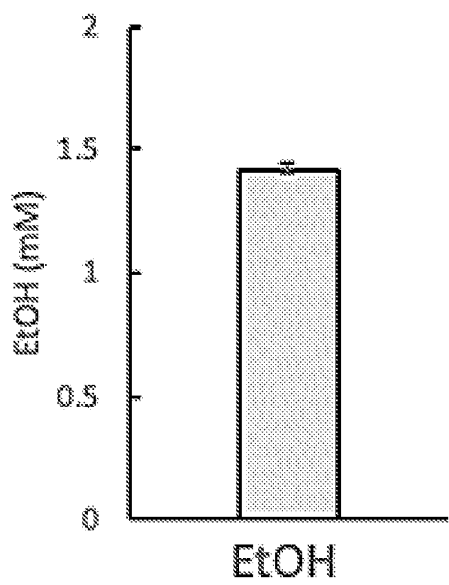


FIG. 15A

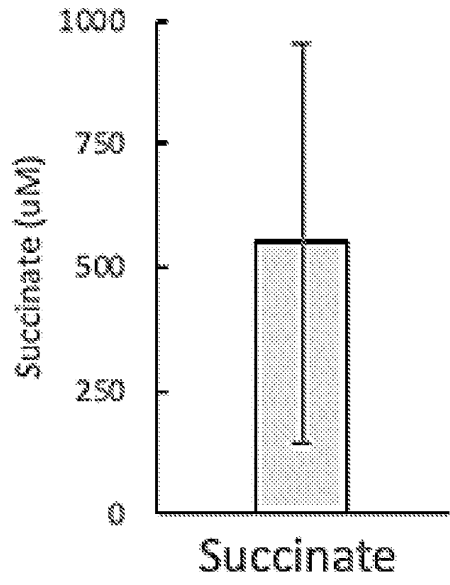


FIG. 15B

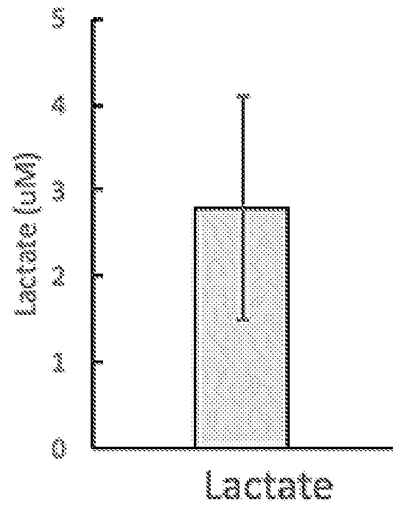


FIG. 15C

Name	0hr Average	24hr Average	0hr SD	24hr SD	Fold Change
(-)-Riboflavin	2.2×10^3	5.0×10^5	4.4×10^3	3.6×10^4	227.5
(2R)-6-methylpiperidine-2-carboxylic acid	3.3×10^5	2.7×10^7	3.1×10^4	1.9×10^6	83.3
(R)-4-aminoisoxazolidin-3-one	1.3×10^6	3.3×10^7	7.4×10^4	1.0×10^6	25.5
1-(4-methoxyphenyl)ethanone	2.1×10^5	3.3×10^6	5.5×10^4	1.8×10^5	15.9
1-AMINOCYCLOPROPANE-1-CARBOXYLATE	1.7×10^5	8.3×10^6	3.3×10^4	2.0×10^5	48.7
1-Methyladenosine	0	2.2×10^5	0	2.0×10^4	N/A
1-Methylguanosine	0	2.0×10^5	0	2.9×10^4	N/A
1,2,3,4-tetrahydro-6-methoxy-1-oxo-beta-carboline	6.9×10^5	5.6×10^5	2.7×10^5	4.1×10^5	0.8
10-methylacridone	1.0×10^6	4.2×10^6	3.3×10^5	2.2×10^5	3.9
1H-Benzotriazole	1.1×10^4	1.1×10^4	4.5×10^3	9.2×10^3	1.0
1h-indole-3-butanoic acid	2.5×10^5	3.8×10^5	3.1×10^4	4.2×10^4	1.5
2-([2H-pyrazolo[3,4-d]pyrimidin-4-yl)amino)ethanol	3.3×10^6	3.8×10^6	4.9×10^5	4.2×10^5	1.2
2-(hydroxymethyl)-4(3H)-quinazolinone	2.5×10^3	1.3×10^3	5.1×10^3	2.6×10^3	0.5
2-amino-4-hydroxypyrimidine-5-carboxylic acid	1.1×10^6	1.4×10^6	8.3×10^5	4.8×10^5	1.3
2-Aminoethanethiol	6.3×10^3	9.5×10^4	1.5×10^3	6.1×10^4	15.1
2-AMINOPHENOL	4.7×10^6	5.3×10^6	2.5×10^5	1.7×10^6	1.1
2-methyl-4-(pyridin-2-yl)but-3-yn-2-ol	3.0×10^6	3.6×10^6	2.1×10^5	1.6×10^5	1.2
2-Methylpyrrolidine	2.8×10^6	4.4×10^8	4.4×10^5	2.4×10^7	156.7
2-Phenylacetamide	7.7×10^5	1.3×10^7	1.3×10^5	2.2×10^6	17.9
2-Piperidone	5.6×10^6	4.2×10^7	2.8×10^5	3.0×10^6	7.5
2'-Deoxyadenosine 5'-monophosphate	4.6×10^6	5.8×10^6	2.0×10^5	1.9×10^5	1.3
2'-O-Methyl-5-methylcytidine	0	1.7×10^6	0	5.2×10^4	N/A
3-(2-hydroxyethyl)quinazolin-4(3H)-one	0	7.3×10^5	0	7.3×10^4	N/A
3-Amino-1,2,4-triazole	1.0×10^6	1.2×10^6	4.7×10^5	8.2×10^4	1.2
3-Methyladenine	1.5×10^3	1.1×10^7	2.5×10^3	1.2×10^6	7272.1
3-Pyridinol	9.4×10^5	5.1×10^6	4.1×10^5	4.1×10^5	5.4
3,7-dimethyl-6-octenyl acetate	4.4×10^3	1.1×10^4	1.3×10^3	9.9×10^3	2.5
4-AMINOBTYRIC ACID	1.7×10^6	2.6×10^6	1.5×10^5	1.3×10^5	1.6
4-aminobutyric acid betaine	4.3×10^6	6.5×10^6	4.3×10^5	4.9×10^5	1.5

FIG. 16A

4-hydroxy-4-(pyridin-2-yl)butan-2-one	6.6×10^6	9.0×10^7	8.3×10^5	1.0×10^7	13.6
4-Methyl-5-thiazoleethanol	1.2×10^5	4.6×10^6	7.7×10^3	3.3×10^5	38.4
5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4H-chromen-4-one	4.3×10^5	1.1×10^5	1.5×10^4	1.7×10^4	0.3
5-Methylcytosine	2.3×10^5	1.0×10^7	1.0×10^5	3.3×10^5	44.6
5,6-Dimethylbenzimidazole	5.4×10^4	4.1×10^5	2.7×10^4	2.8×10^5	7.6
5'-5-Methylthioadenosine	3.5×10^3	2.3×10^3	1.2×10^3	2.8×10^3	0.7
6-ethyl-2,3,5-trimethyl-7H-furo[3,2-g]chromen-7-one	2.4×10^4	1.5×10^7	1.3×10^4	8.5×10^5	656.1
6-hydroxybenzofuran-3(2H)-one	3.1×10^7	3.6×10^7	5.0×10^6	4.7×10^5	1.2
7,8-dimethoxybenzo[d][1,2]oxazin-1-one	6.5×10^3	2.0×10^6	7.9×10^3	3.4×10^5	318.8
8-O-Acetyl shanzhiside methyl ester	7.8×10^5	7.5×10^5	5.3×10^4	4.7×10^4	1.0
Acetylcholine	3.9×10^7	4.8×10^7	1.1×10^6	2.9×10^5	1.2
Adenine	1.9×10^5	6.7×10^6	9.5×10^4	3.8×10^5	34.2
Adenosine	6.0×10^4	1.1×10^7	1.1×10^4	8.7×10^5	196.7
AGMATINE SULFATE	8.7×10^4	3.6×10^3	1.9×10^4	3.8×10^3	0.0
Alanine	1.8×10^5	1.2×10^7	8.6×10^4	1.3×10^5	69.8
alpha-oxo-1h-indole-3-propanoic acid	3.9×10^3	7.8×10^5	7.8×10^3	2.0×10^5	199.9
Anabasamine	3.0×10^4	2.4×10^4	2.5×10^4	1.5×10^4	0.8
Aniline	1.2×10^7	1.5×10^7	1.3×10^6	1.7×10^5	1.2
anthraquinone	1.8×10^5	1.2×10^6	1.4×10^4	2.8×10^5	7.0
Arginine	1.6×10^5	6.8×10^7	4.6×10^6	3.4×10^5	40.4
Benzoic acid	2.0×10^5	6.4×10^6	4.1×10^5	1.1×10^5	31.1
betaine	4.4×10^4	4.7×10^4	3.4×10^4	1.9×10^4	1.1
Cadaverine	1.8×10^6	7.8×10^7	8.3×10^5	5.0×10^6	42.5
Choline	2.8×10^5	2.7×10^6	2.3×10^6	1.8×10^6	1.0
Citrulline	0	3.0×10^5	0	1.3×10^4	N/A
Cowaxanthone B	0	8.8×10^6	0	1.0×10^5	N/A
Creatinine	1.1×10^6	1.0×10^6	4.8×10^5	4.1×10^5	0.9
Cytarabine	0	6.0×10^3	0	7.2×10^3	N/A
Cytosine	2.5×10^4	4.6×10^4	1.6×10^4	3.3×10^4	1.8
D-(+)-Glucosamine	4.4×10^5	3.1×10^7	1.6×10^6	4.8×10^6	7.1
D-(+)-Glucosamine hydrochloride	5.7×10^5	4.9×10^6	5.9×10^5	2.8×10^5	0.9
D-(+)-Pantothenic acid	9.6×10^4	3.2×10^6	1.8×10^5	2.4×10^5	3.4
D-Ala-D-ala	7.4×10^5	4.8×10^5	7.0×10^4	6.2×10^4	6.6

FIG. 16A (continued)

DEOXYCARNITINE	2.4×10^5	2.2×10^5	7.1×10^4	7.5×10^4	0.9
Desethyl atrazine	8.0×10^4	2.8×10^7	3.2×10^4	2.3×10^6	361.3
desmotroposantonin	0	6.5×10^3	0	4.8×10^3	N/A
DIETHANOLAMINE	4.3×10^6	3.3×10^5	5.4×10^5	1.8×10^5	0.8
Dihydrolycorine	0	9.4×10^2	0	1.8×10^3	N/A
DL-alpha,epsilon-Diaminopimelic acid	1.3×10^4	7.7×10^5	9.1×10^3	8.9×10^4	58.2
Dopamine	3.5×10^5	9.1×10^5	1.8×10^5	1.1×10^5	2.6
Glutathione	7.3×10^5	8.3×10^4	1.0×10^5	2.5×10^4	0.1
Glycerol-2-phosphate	2.1×10^3	9.1×10^2	4.2×10^3	1.8×10^3	0.4
Glycine-Betaine	2.2×10^7	2.9×10^7	3.0×10^6	1.2×10^7	1.3
Guanidinoacetic acid	1.8×10^6	2.3×10^7	7.1×10^4	7.8×10^5	12.3
Heteropeucenin, Methyl Ether	0	2.2×10^5	0	4.5×10^4	N/A
Histidine	6.0×10^5	7.0×10^7	2.2×10^5	3.3×10^6	116.3
honokiol	1.7×10^3	3.5×10^5	3.4×10^3	4.3×10^4	207.9
Hypoxanthine	2.6×10^4	3.1×10^6	9.0×10^3	3.7×10^5	119.1
Indole-3-carbinol	6.1×10^4	1.1×10^5	3.0×10^4	7.2×10^4	1.9
Indole-3-carboxyaldehyde	3.0×10^4	3.3×10^6	3.0×10^4	2.9×10^5	109.5
Indoline	7.6×10^6	2.0×10^8	4.0×10^5	6.9×10^6	26.3
INDOXYL SULFATE	6.5×10^4	2.1×10^6	2.0×10^4	1.8×10^5	32.5
inosine	0	8.1×10^5	0	3.6×10^4	N/A
Isoleucine	1.5×10^5	5.7×10^7	6.7×10^4	1.3×10^7	385.5
Isonicotinic acid	8.7×10^3	7.0×10^4	3.2×10^3	4.3×10^4	8.1
Ketoisovaleric acid	1.5×10^3	8.0×10^5	3.1×10^3	1.1×10^5	506.6
L-(-)-Phenylalanine	2.0×10^7	1.0×10^8	7.1×10^6	6.3×10^6	5.0
L-(-)-Proline	1.8×10^5	1.8×10^5	8.6×10^4	1.8×10^5	9.9
L-(+)-Arginine	1.4×10^4	2.8×10^6	6.1×10^3	1.4×10^5	190.9
L-5-Oxoproline	3.6×10^5	3.4×10^7	2.0×10^4	6.3×10^5	95.3
L-beta-Homoproline	1.1×10^6	4.9×10^5	1.0×10^5	2.2×10^4	0.4
L-Carnitine	1.2×10^4	1.2×10^4	5.0×10^3	6.7×10^3	1.0
L-Glutamic acid	1.2×10^6	1.1×10^6	9.9×10^4	1.6×10^6	89.5
Leucine	4.2×10^5	5.4×10^7	7.7×10^4	1.3×10^6	129.0
lindenol	5.4×10^5	7.9×10^5	6.9×10^4	7.1×10^4	1.5
Lysine	2.9×10^5	6.0×10^6	1.2×10^5	2.0×10^5	20.6
Malic acid	0	2.8×10^5	0	2.8×10^4	N/A
Malvidin	6.4×10^5	7.9×10^5	3.3×10^4	4.7×10^4	1.2
Methionine	9.5×10^3	1.6×10^7	1.9×10^4	1.8×10^6	1748.6
Morpholine	4.8×10^8	5.8×10^8	1.5×10^7	1.0×10^7	1.2
Myclobutanil	2.0×10^4	8.0×10^5	9.8×10^3	9.0×10^4	38.4

FIG. 16A (continued)

N-(2-furylmethyl)-9H-purin-6-amine	6.2×10^4	4.3×10^5	1.1×10^4	2.9×10^4	6.8
N-Acetylarginine	0	2.4×10^5	0	5.0×10^4	N/A
N-Acetylhistidine	0	9.1×10^5	0	2.1×10^4	N/A
N-Acetylmuramic Acid	8.5×10^2	2.2×10^6	1.7×10^3	5.3×10^4	2609.4
N-Acetylputrescine	4.4×10^8	1.0×10^9	1.0×10^7	2.6×10^8	2.5
N-epsilon-Acetyllysine	2.6×10^4	5.2×10^5	2.5×10^4	1.2×10^5	20.0
N-Methyl-L-proline	1.5×10^6	8.0×10^5	1.2×10^5	7.1×10^4	0.5
N-Methylantranilic Acid	1.6×10^6	5.6×10^6	2.1×10^5	3.9×10^5	3.5
N-Methylisoleucine	6.8×10^5	2.3×10^6	2.0×10^5	2.1×10^5	3.5
N-Methylproline	3.1×10^5	4.7×10^6	8.2×10^4	2.1×10^5	15.1
N,N-Dimethylaniline	1.4×10^7	1.8×10^7	1.9×10^6	5.1×10^5	1.2
N,N-Dimethylarginine	1.9×10^3	1.9×10^3	2.5×10^3	2.2×10^3	1.0
N2-Methylguanosine	0	2.6×10^6	0	1.0×10^5	N/A
N8-Acetylspermidine	4.0×10^7	1.2×10^8	2.6×10^6	8.1×10^6	3.1
Nicotinamide	3.6×10^5	4.9×10^7	1.4×10^5	8.9×10^6	135.5
Nordihydroguaiaretic acid	2.9×10^5	3.4×10^5	6.8×10^4	7.2×10^4	1.2
Obturbamate A	1.3×10^5	2.7×10^5	2.3×10^4	4.7×10^4	2.0
Ophthalmic acid	2.1×10^3	1.0×10^4	4.3×10^3	8.1×10^3	4.7
Ornithine	6.0×10^5	5.4×10^5	2.7×10^5	1.3×10^5	0.9
p-Coumaraldehyde	1.1×10^5	2.3×10^6	3.1×10^4	1.5×10^5	21.0
Pantethine	0	5.8×10^5	0	5.8×10^5	N/A
Phenylacetaldehyde	7.3×10^4	2.7×10^5	3.1×10^4	9.9×10^4	3.8
Phenylalanine	1.3×10^6	5.1×10^7	1.4×10^5	7.4×10^7	37.5
Phenylglycine	4.3×10^5	8.0×10^6	1.8×10^5	3.0×10^5	18.6
PIPERIDINE	1.2×10^6	1.5×10^6	1.6×10^5	7.9×10^5	1.2
Proline	6.9×10^5	1.6×10^8	8.6×10^4	2.5×10^7	234.6
Propachlor	1.8×10^9	2.0×10^9	6.0×10^7	2.3×10^8	1.1
Propamocarb	4.2×10^5	1.1×10^6	4.5×10^4	9.5×10^4	2.8
PTERIN	1.0×10^6	1.1×10^7	5.4×10^4	3.0×10^5	10.7
Putrescine	6.7×10^6	1.0×10^8	4.6×10^5	1.4×10^7	15.2
Pyridine	5.8×10^6	9.0×10^6	7.2×10^5	7.9×10^6	1.5
Pyridoxal 5-phosphate	3.0×10^5	4.4×10^6	7.3×10^4	1.8×10^5	14.8
Pyridoxamine	1.7×10^5	8.7×10^6	3.6×10^4	2.9×10^5	49.5
PYRIDOXINE	1.9×10^6	1.6×10^7	1.9×10^5	1.5×10^6	8.3
Pyrimidinol	1.3×10^6	1.6×10^6	1.0×10^5	4.5×10^5	1.2
Pyrrolidine	1.0×10^8	9.4×10^8	6.7×10^6	1.3×10^8	9.3
rhein	1.2×10^4	6.6×10^5	5.0×10^3	2.5×10^5	51.7
S-Adenosyl-L-methionine	1.6×10^5	2.6×10^5	1.6×10^4	1.4×10^4	1.6

FIG. 16A (continued)

Sec-O-glucosylhamaudol	0	1.9×10^5	0	2.2×10^4	N/A
securinine	0	7.0×10^5	0	3.2×10^4	N/A
Shanzhiside	6.7×10^5	6.8×10^4	4.5×10^4	2.2×10^4	0.1
TETRAMETHYLENEDIAMINE	7.1×10^5	1.1×10^6	1.1×10^5	6.4×10^4	1.7
Thiamine; LC-ESI-QTOF; MS2; CE	2.4×10^5	7.9×10^6	6.4×10^3	5.4×10^5	32.3
Threonine	2.4×10^4	4.0×10^6	1.3×10^4	3.5×10^5	167.2
Trachelanthine	7.4×10^5	9.2×10^5	7.7×10^4	5.9×10^4	1.2
trans-4-Hydroxy-L-proline	2.3×10^6	2.7×10^6	1.5×10^5	2.4×10^5	1.1
Triethanolamine	6.0×10^7	2.7×10^7	3.2×10^6	3.3×10^6	0.5
Trimethylamine N-oxide	7.2×10^5	1.2×10^7	4.7×10^4	5.1×10^5	16.5
TRYPTOPHAN	1.3×10^4	1.3×10^7	1.2×10^4	1.0×10^6	1014.0
Tryptophanol	8.8×10^3	2.4×10^6	3.3×10^3	2.5×10^5	273.1
Tyrosine	1.0×10^5	2.9×10^7	1.2×10^5	4.9×10^6	27.7
UROCANIC ACID	3.0×10^6	2.4×10^6	7.3×10^5	8.7×10^4	0.8
Wogonin	3.7×10^4	2.1×10^6	1.0×10^4	8.2×10^4	57.2
Xanthine	1.7×10^4	1.5×10^7	1.3×10^4	4.2×10^6	884.7
Xanthosine	2.8×10^5	6.1×10^4	4.0×10^4	2.5×10^4	0.2
XANTHURENIC ACID	7.3×10^5	8.6×10^5	1.0×10^5	3.8×10^4	1.2

FIG. 16A (continued)

Name	0hr Average	24hr Average	0hr SD	24hr SD	Fold Change
(-)-Citramalic acid	1.2×10^5	5.8×10^5	1.1×10^4	4.3×10^4	4.6
1,4-Butynediol	4.5×10^4	4.6×10^4	2.2×10^4	1.2×10^4	1.0
2-Hydroxy-4-methylpentanoic acid	2.5×10^6	2.8×10^7	1.7×10^5	1.8×10^6	11.5
2-Oxobutyric acid	4.2×10^5	5.0×10^5	3.2×10^5	7.6×10^4	1.2
2',4'-Dihydroxychalcone	4.0×10^4	1.9×10^6	7.3×10^3	1.3×10^5	47.0
2',4',6'-Trihydroxydihydrochalcone	0	2.0×10^3	0	2.8×10^3	N/A
3-Hydroxymandelic acid	1.1×10^7	1.3×10^7	4.6×10^5	2.6×10^6	1.1
3-Phenyllactic acid	3.7×10^6	1.1×10^7	1.1×10^5	1.4×10^6	3.0
3,4-Dihydroxybenzoic acid	7.8×10^5	3.3×10^6	1.6×10^4	1.3×10^6	4.3
3'-O-Methylguanosine	0	2.4×10^5	0	2.7×10^4	N/A
4-Hydroxy-6-Methylpyran-2-One	7.0×10^3	4.9×10^3	4.2×10^3	2.1×10^3	0.7
4-Hydroxybenzaldehyde	1.1×10^6	6.7×10^5	8.8×10^4	1.6×10^5	0.6
4,4'-Thiodiphenol	1.3×10^5	1.1×10^5	4.8×10^4	3.4×10^4	0.9
6,7-DIHYDROXYCOUMARIN	1.1×10^4	1.6×10^6	1.0×10^4	8.4×10^4	139.5
8-Methylsulfinyloctyl isothiocyanate	4.3×10^2	6.6×10^2	8.7×10^2	1.3×10^3	1.5
Acetyllecucine	9.9×10^4	5.0×10^5	1.6×10^4	2.8×10^4	5.1
Adenine	8.9×10^5	8.9×10^5	1.0×10^5	3.1×10^5	10.0
Ala-Ala	5.4×10^5	2.8×10^6	6.6×10^4	2.4×10^5	5.2
Ala-Ile	5.0×10^2	7.9×10^2	2.4×10^2	4.6×10^2	1.6
alpha-L-(-)-Fucose 1-phosphate bis(cyclohexylammonium) salt	2.9×10^3	5.6×10^3	2.1×10^3	3.8×10^3	1.9
Aspartate	3.1×10^5	2.0×10^7	4.5×10^4	1.9×10^6	64.1
Caffeic acid	4.5×10^4	1.4×10^5	9.2×10^3	1.3×10^4	3.2
Catechol	4.7×10^4	2.2×10^5	1.0×10^4	8.8×10^4	4.8
D-(+)-Malic acid	9.0×10^5	2.8×10^6	8.9×10^4	1.4×10^5	3.2
D-(+)-Pantothenic acid	1.0×10^6	5.6×10^6	6.7×10^4	7.5×10^4	5.2
D-GLYCERIC ACID	4.6×10^5	2.9×10^5	5.3×10^4	6.0×10^4	0.6
D-Ribose 5-phosphate	6.7×10^2	1.0×10^3	4.7×10^2	1.1×10^3	1.5
D-Sorbitol	1.1×10^5	1.3×10^6	2.6×10^4	9.9×10^4	11.7
D-Sorbitol 6-phosphate	1.5×10^5	1.2×10^5	1.4×10^4	1.7×10^5	8.1
Dihydroxy-Valerate	2.6×10^5	3.5×10^5	3.2×10^4	1.7×10^4	1.3
DL-2-Hydroxyvaleric acid	7.7×10^5	6.5×10^6	9.1×10^4	2.4×10^5	8.4
DL-3-(4-Hydroxyphenyl)lactic acid	3.7×10^5	2.3×10^6	3.6×10^4	2.3×10^5	6.3
DL-3-Aminoisobutyric acid	1.1×10^5	5.9×10^6	1.2×10^4	5.4×10^5	53.9

FIG. 16B

DL-beta-Hydroxybutyric acid	1.2×10^5	5.1×10^6	2.8×10^4	2.9×10^5	42.7
Dodecylbenzenesulfonic acid	6.6×10^5	4.6×10^5	7.8×10^3	1.2×10^4	0.7
Fumaric acid	1.0×10^6	7.8×10^5	3.2×10^4	6.2×10^4	0.8
Glucose	1.4×10^4	7.4×10^3	6.1×10^3	2.9×10^3	0.5
GLUTARIC ACID	4.5×10^5	6.1×10^5	4.7×10^4	2.6×10^4	1.3
Glycerol-2-phosphate	1.1×10^5	9.5×10^6	1.8×10^4	9.9×10^5	82.2
GUANINE	9.6×10^3	1.5×10^5	5.0×10^3	1.0×10^4	16.0
Guanosine	1.8×10^3	0	2.9×10^3	0	0.0
Hydroxymethylglutaric acid	1.1×10^6	1.0×10^6	6.6×10^4	4.4×10^4	0.9
Hypoxanthine	1.4×10^7	2.1×10^6	8.7×10^5	1.4×10^7	14.9
Inosine	1.8×10^4	3.8×10^5	2.0×10^3	3.5×10^4	20.4
Itaconic acid	8.4×10^4	1.5×10^5	2.2×10^4	5.2×10^4	1.8
Ketoleucine	1.3×10^5	1.5×10^5	3.9×10^4	4.8×10^4	1.2
L-(-)-Phenylalanine	7.5×10^5	1.7×10^7	2.7×10^5	4.2×10^6	23.8
L-5-Oxoproline	3.0×10^5	6.6×10^6	1.1×10^5	4.8×10^5	22.2
L-Arginine	5.4×10^2	3.2×10^6	1.0×10^3	4.2×10^5	6023.4
L-Glutamic acid	1.8×10^6	8.1×10^7	1.4×10^5	7.1×10^6	45.5
L-Histidine	1.2×10^4	1.5×10^7	7.5×10^3	1.6×10^6	1292.2
L-Leucine	3.0×10^4	5.7×10^6	2.0×10^3	3.5×10^5	187.4
L-Norvaline	1.4×10^4	3.4×10^6	9.4×10^3	3.0×10^5	233.0
L-Threonic acid hemicalcium salt	2.8×10^4	1.9×10^6	2.6×10^4	4.1×10^5	69.5
L-Tyrosine	1.8×10^5	4.3×10^6	1.9×10^4	3.2×10^5	23.9
Lactic acid	9.4×10^6	6.5×10^7	1.6×10^6	7.2×10^6	6.9
Methylsuccinic acid	1.2×10^5	2.5×10^6	1.6×10^4	1.7×10^5	21.3
N-Acetyl-DL-glutamic acid	1.1×10^6	1.6×10^6	1.0×10^5	1.9×10^5	1.5
N-Acetylaspartate	9.0×10^3	9.5×10^4	4.8×10^3	1.3×10^4	10.6
N-acetylphenylalanine	4.5×10^5	3.2×10^6	1.5×10^4	2.9×10^5	7.3
NIACIN	2.4×10^6	1.4×10^7	2.4×10^5	9.0×10^5	5.8
O-Phosphoethanolamine	2.9×10^4	9.0×10^5	1.2×10^4	1.2×10^5	30.9
Orotic acid	1.9×10^6	4.2×10^6	2.4×10^5	4.4×10^5	2.1
ORTHO-AMINOBENZOIC ACID	4.7×10^4	9.7×10^4	1.1×10^4	1.6×10^4	2.0
p-Coumaraldehyde	2.3×10^4	1.3×10^6	2.6×10^4	3.1×10^5	59.7
p-Coumaraldehyde; Plasma ID-92	2.3×10^5	7.3×10^5	7.8×10^3	1.1×10^5	3.2
P-HYDROXYBENZOIC ACID	7.3×10^4	9.0×10^5	1.7×10^4	8.0×10^4	12.3
Pantethine	9.3×10^1	6.6×10^5	1.8×10^2	1.7×10^4	7093.1
Paracetamol	1.8×10^4	2.4×10^5	2.5×10^3	2.5×10^4	13.6
Phosphoric acid	6.4×10^7	1.5×10^8	4.6×10^6	7.1×10^6	2.3

FIG. 16B (continued)

PYRIDOXINE	8.9×10^4	1.2×10^5	6.7×10^3	1.5×10^5	14.2
Serine	1.0×10^5	1.6×10^5	3.4×10^4	1.8×10^5	16.1
Succinic acid	1.5×10^8	4.3×10^8	5.0×10^6	2.6×10^7	2.8
Succinic acid	3.7×10^6	8.7×10^5	1.0×10^6	3.6×10^6	2.3
Succinic acid (not validated); PlaSMA ID-26	6.4×10^5	2.4×10^5	2.2×10^5	8.6×10^5	3.8
Threonine	1.0×10^4	9.8×10^5	9.4×10^3	1.0×10^5	97.3
Thymidine-5'-monophosphate	0	5.7×10^2	0	1.1×10^3	N/A
TRANS-ORTHO-COUMARIC ACID	1.5×10^4	8.6×10^4	4.6×10^3	1.0×10^4	5.5
Trehalose	1.2×10^4	7.0×10^3	5.1×10^3	3.7×10^3	0.6
Trifluoroacetic acid	6.7×10^6	6.2×10^5	6.8×10^5	4.6×10^5	0.9
Tryptophenolide	8.5×10^5	5.6×10^5	5.0×10^4	3.7×10^4	0.7
URACIL	2.7×10^6	5.0×10^5	2.7×10^5	5.7×10^5	1.9
Uric acid	7.7×10^3	1.6×10^5	4.2×10^3	5.6×10^4	215.6
Uridine	2.2×10^4	7.3×10^4	5.8×10^3	6.7×10^3	3.3
UROCANIC ACID	3.5×10^5	3.5×10^5	5.5×10^4	4.7×10^4	1.0
Xanthine	4.2×10^7	1.1×10^8	5.1×10^6	4.9×10^6	2.8

FIG. 16B (continued)