

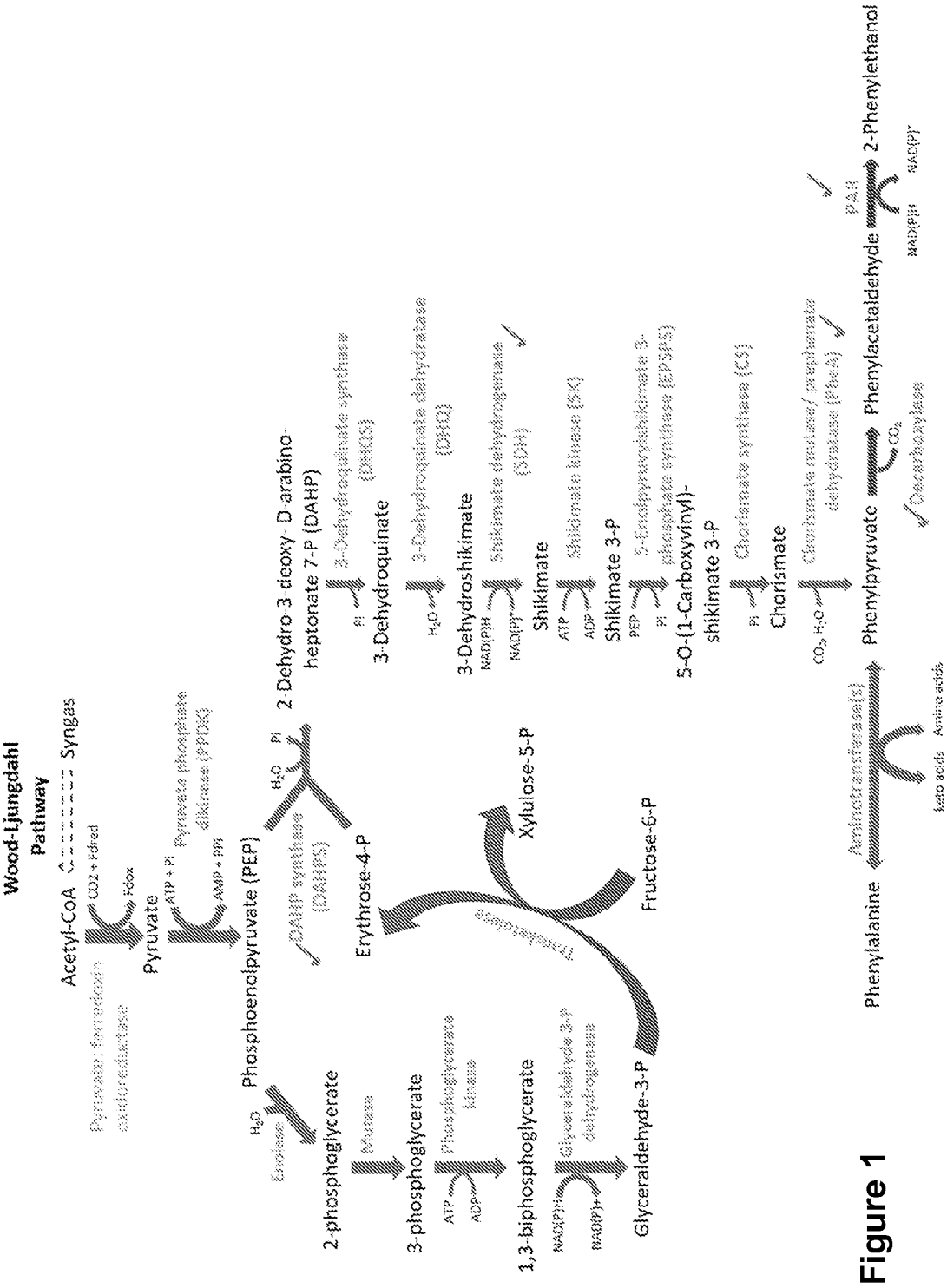


Figure 1

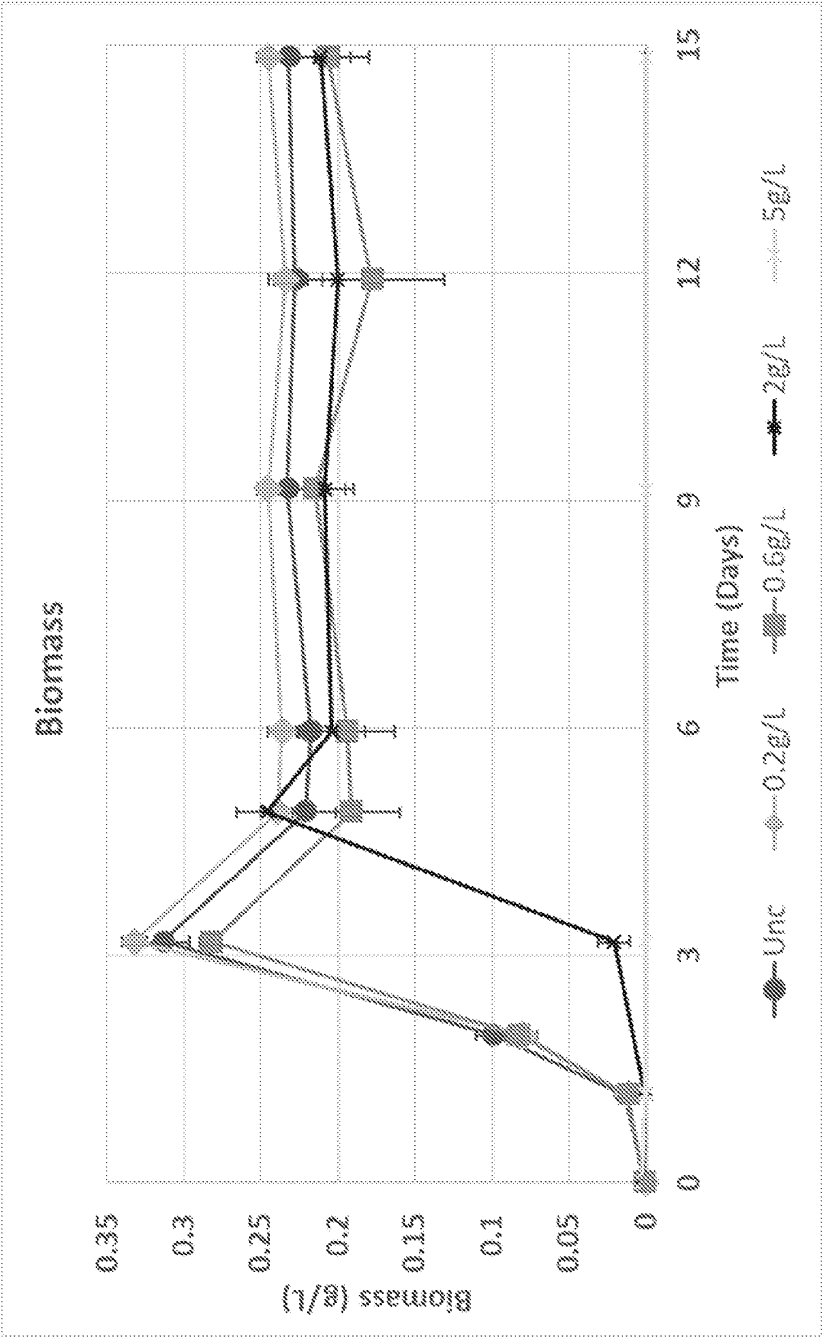


Figure 2A

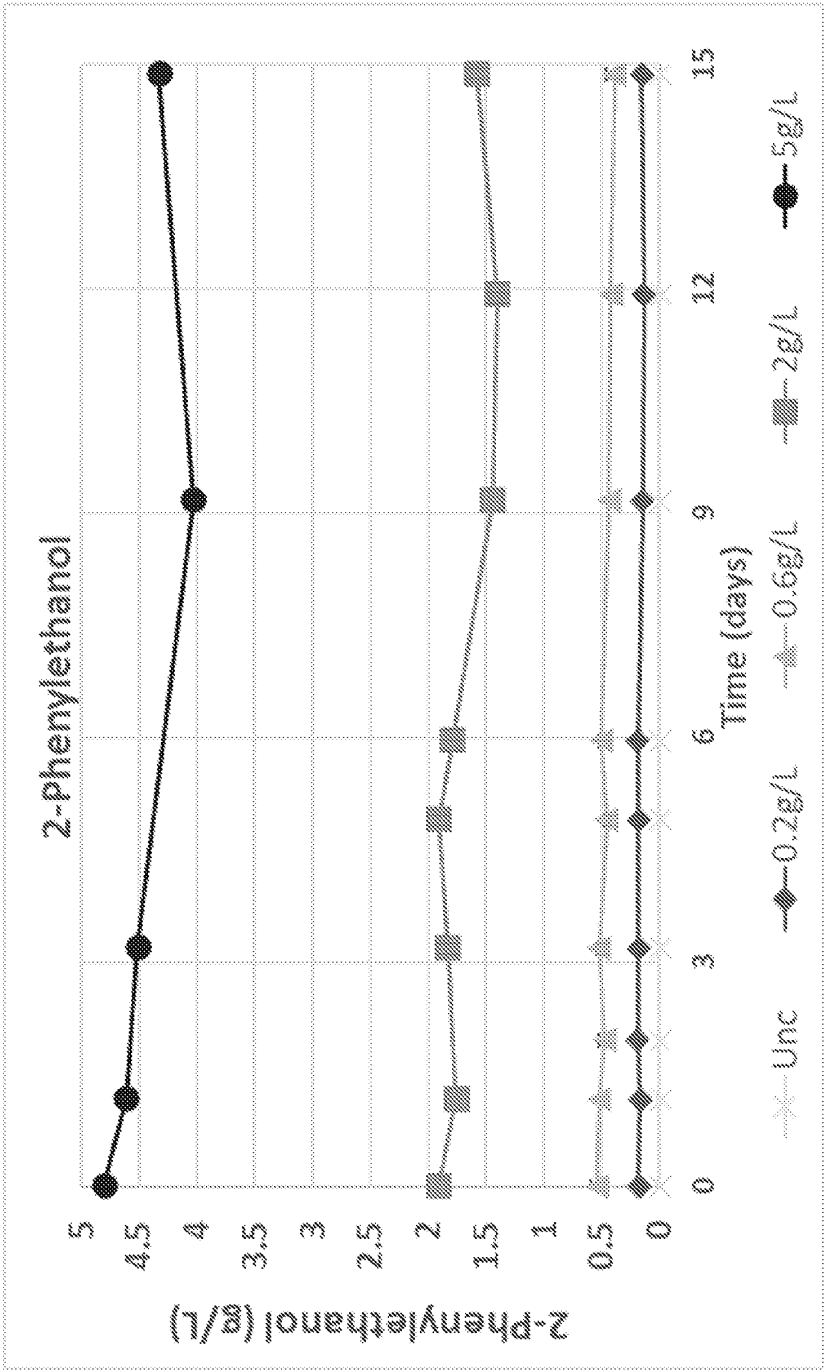


Figure 2B

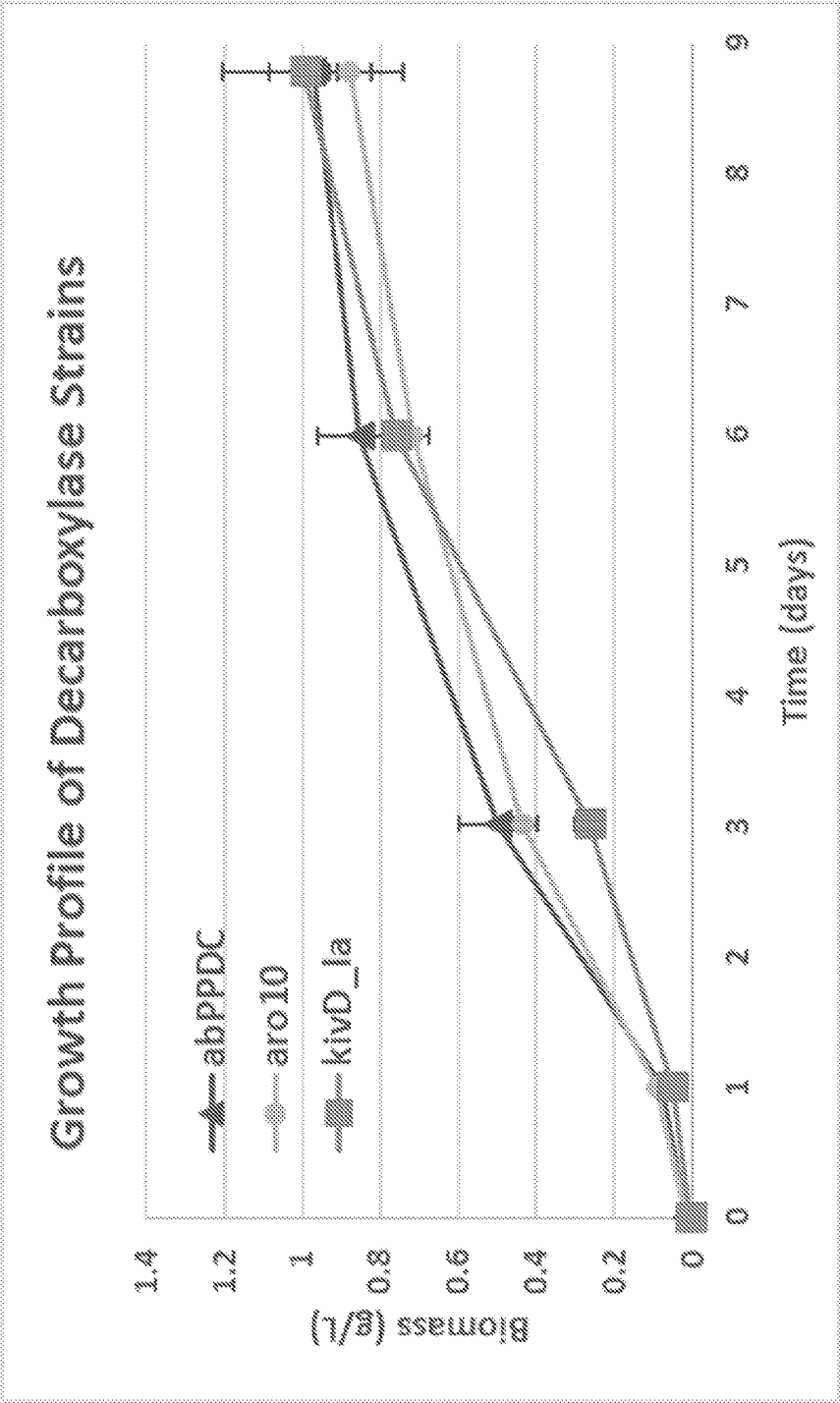


Figure 3A

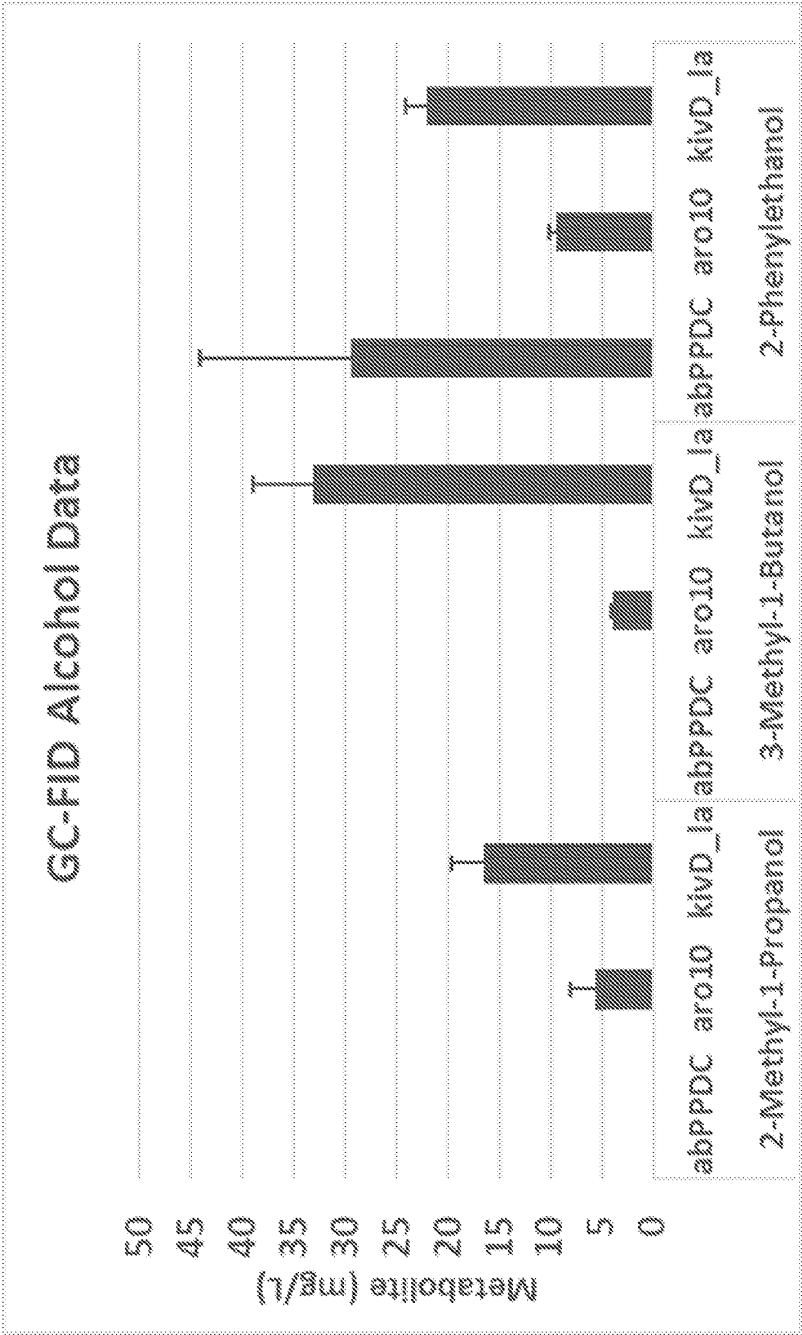


Figure 3B

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PAR variant	Species	AA Length	Cofactor	Reference
adh6	<i>Saccharomyces cerevisiae</i>	360	NADPH	Chemico-Biological Interactions 143-144 (2003): 229-238
lePAR	<i>Solanum lycopersicum</i>	328	NADPH	Phytochemistry 68 (2007) 2660 - 2779
ecPAR	<i>Escherichia coli</i>	339	?	MicrobiologyOpen (2017) 6: e486
bIPAR	<i>Brevibacterium linens</i>	363	NADH	Journal of Bioscience and Bioengineering 100 (2005): 318 - 322
rrPAR	<i>Rhodococcus ruber</i>	346	NADH	Journal of Industrial Microbiology and Biotechnology 39 (2012): 1385 - 1396
rsPAR	<i>Rhodococcus</i> sp. ST-10	348	NADH	Applied and Environmental Microbiology 63 (1997): 3783 - 3788

Figure 4A

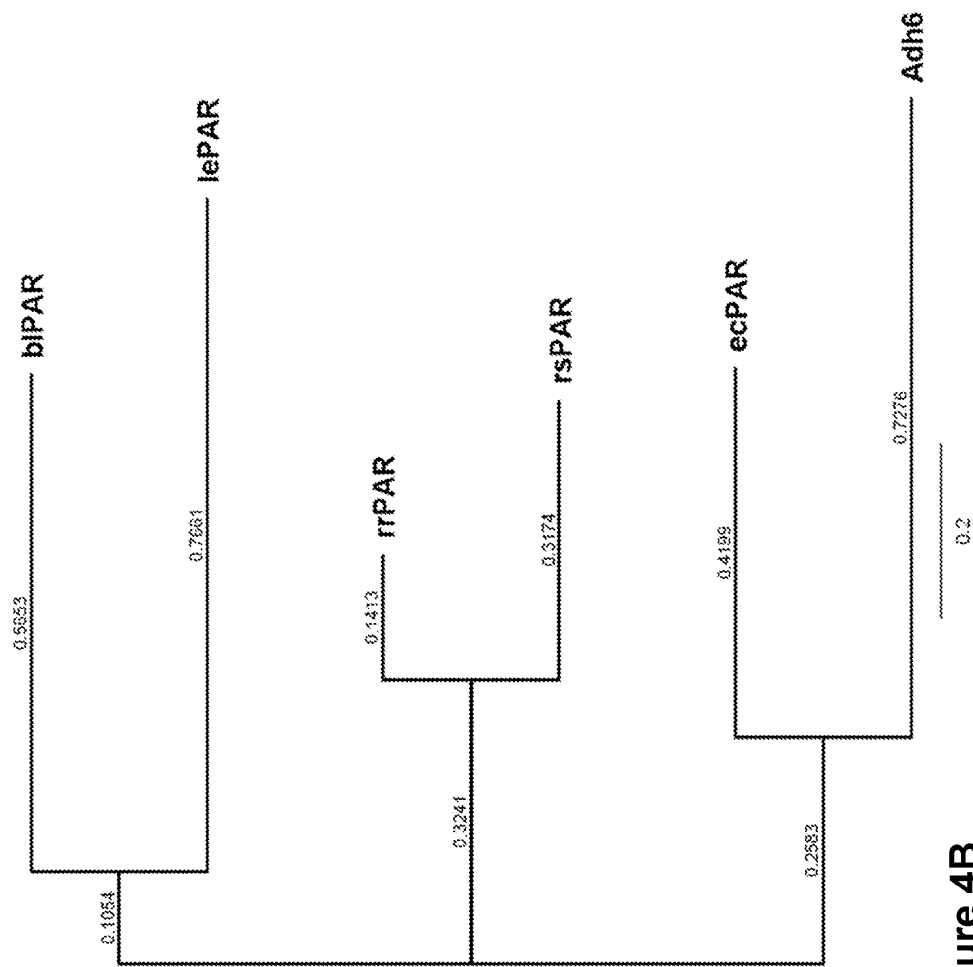


Figure 4B

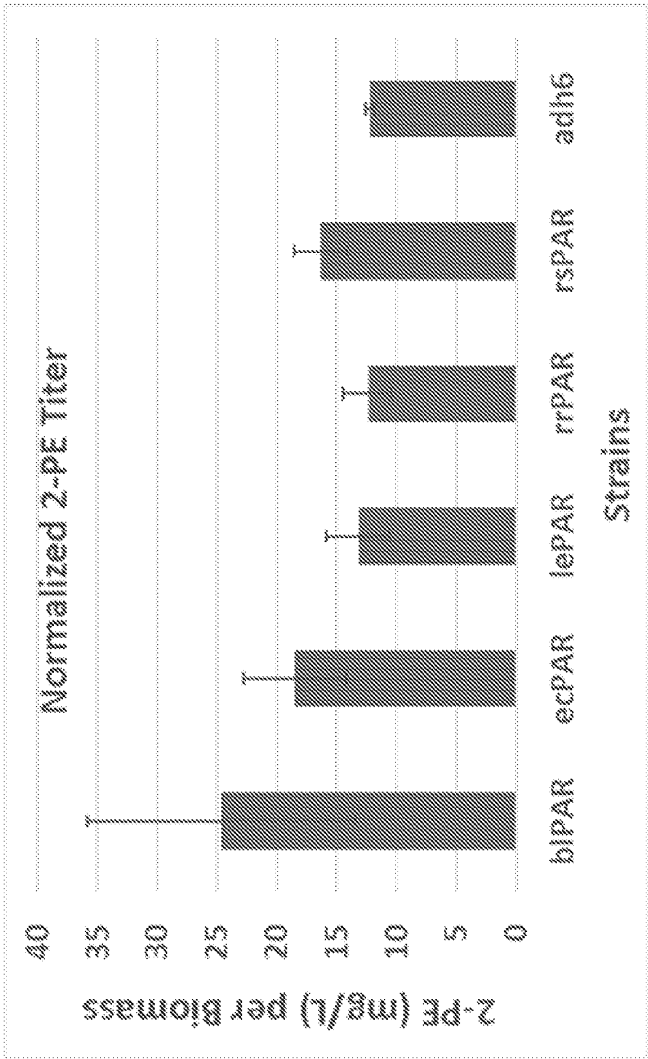


Figure 4C

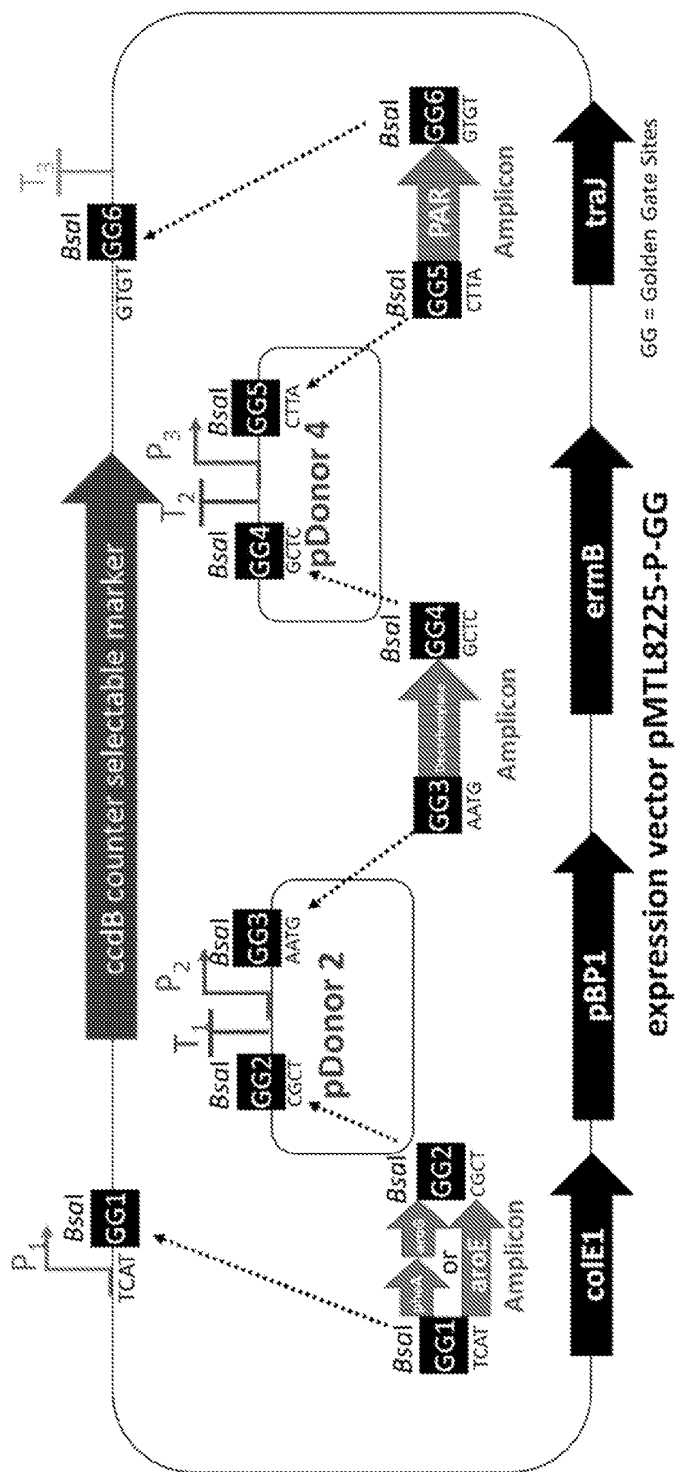
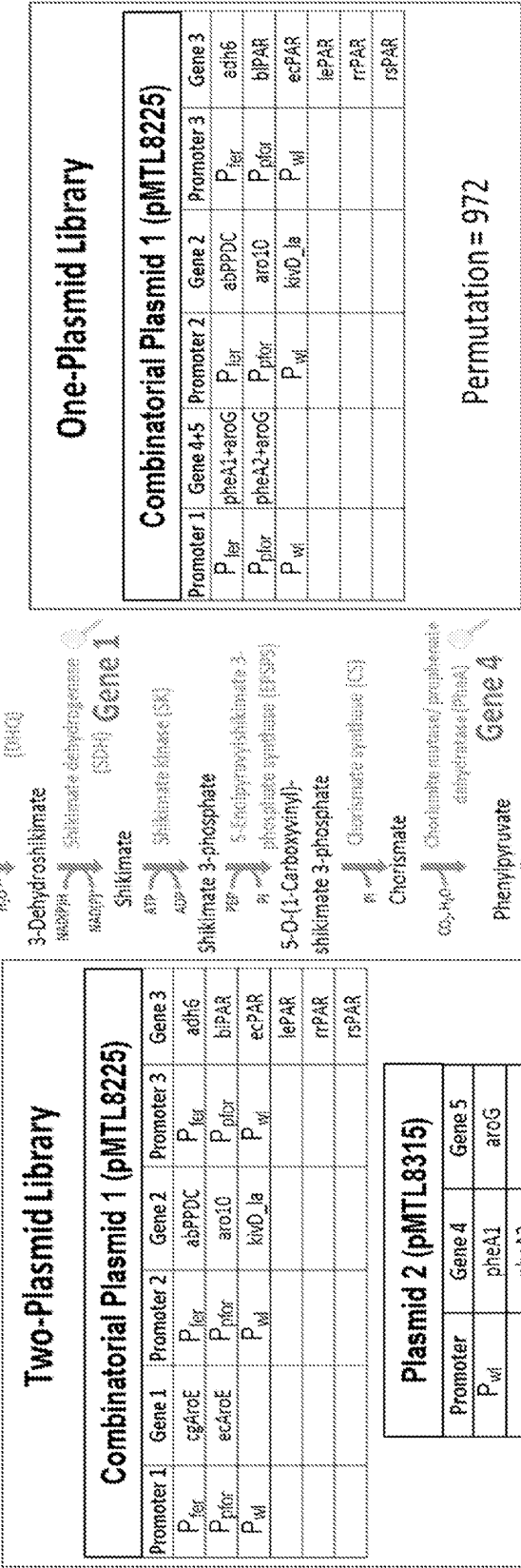
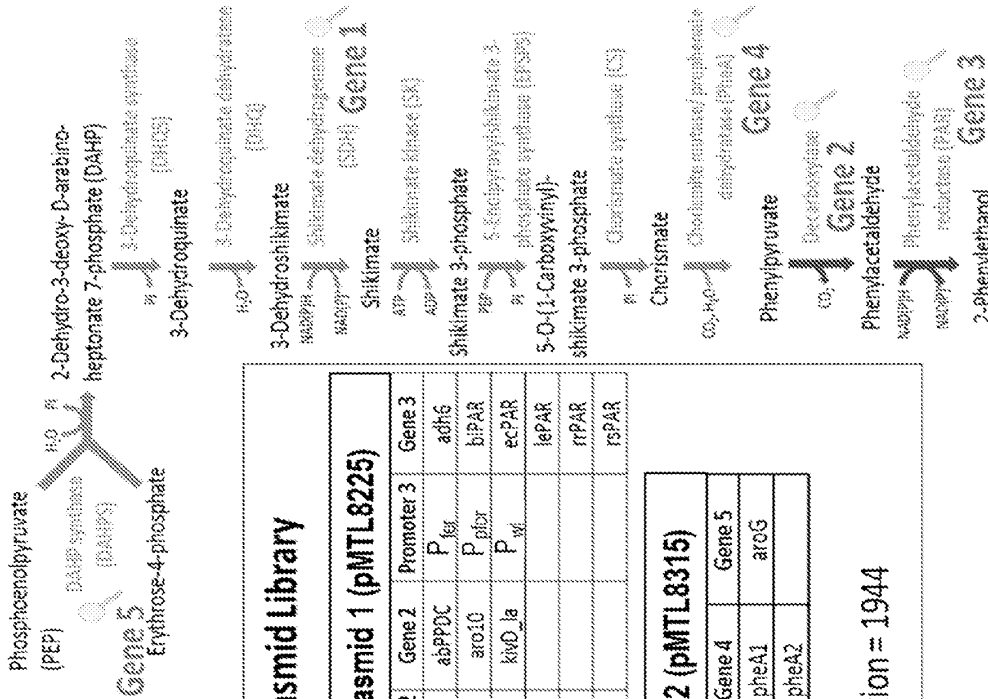


Figure 5



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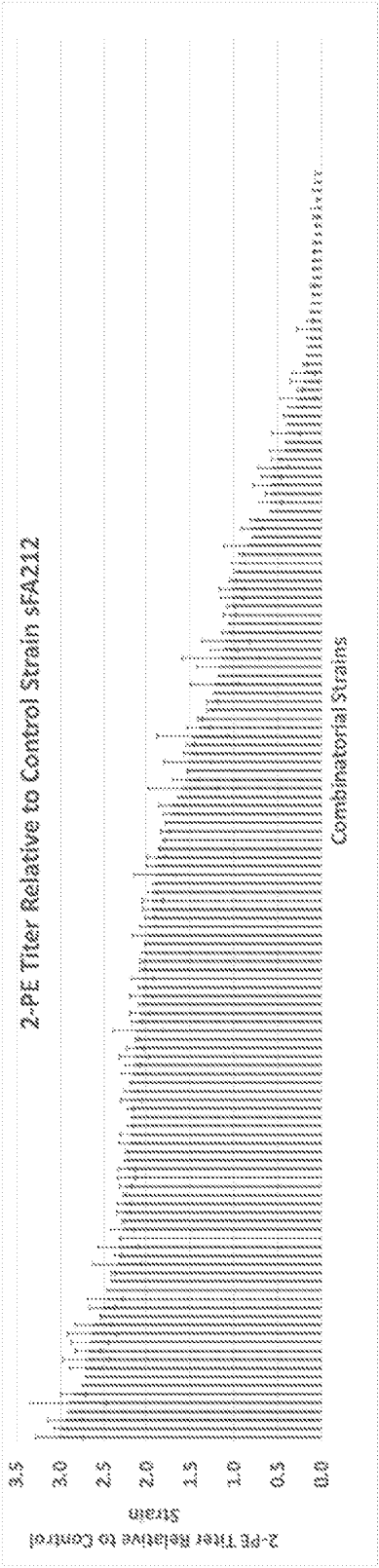


Figure 7A

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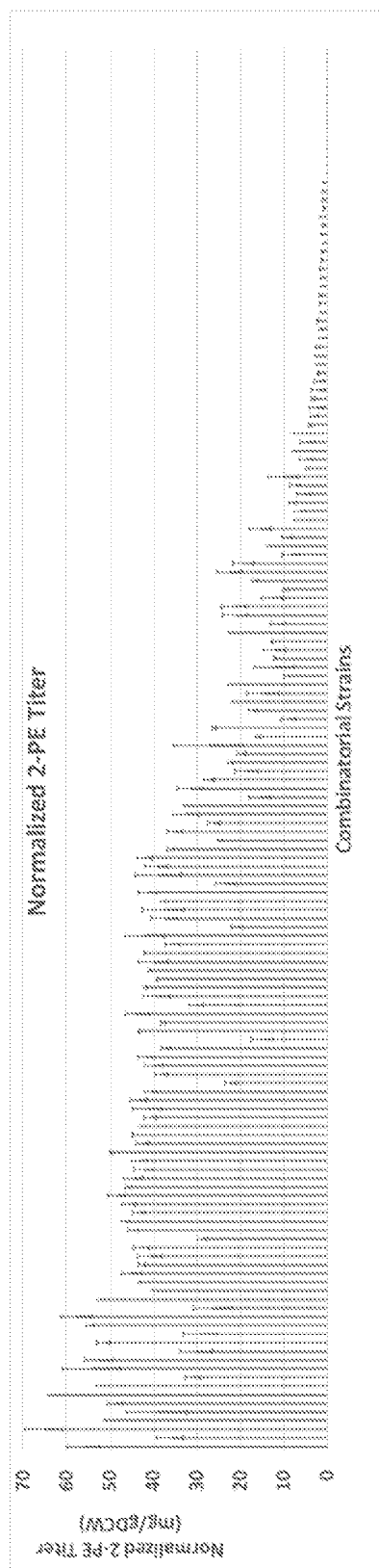


Figure 7B

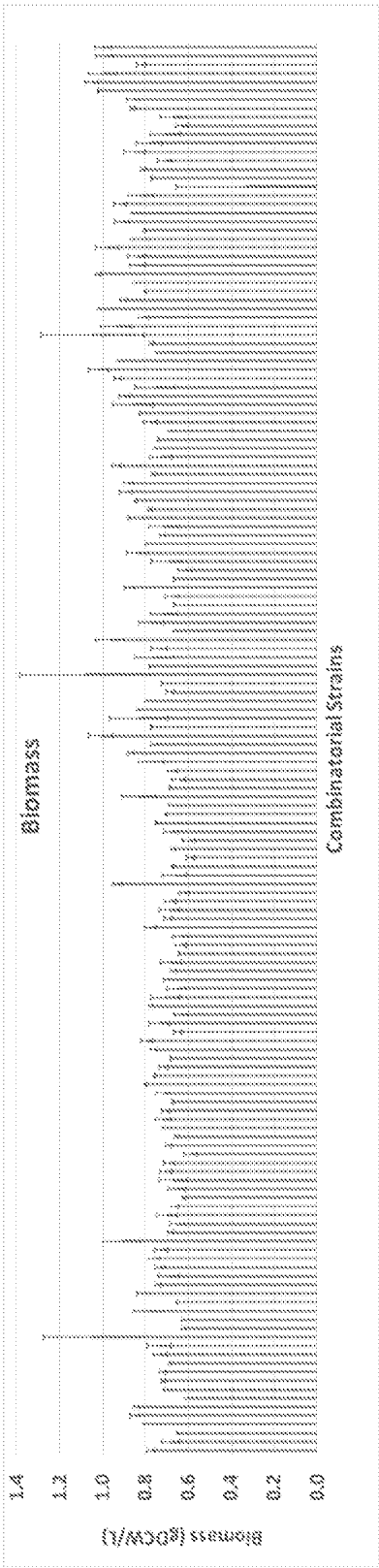


Figure 7C

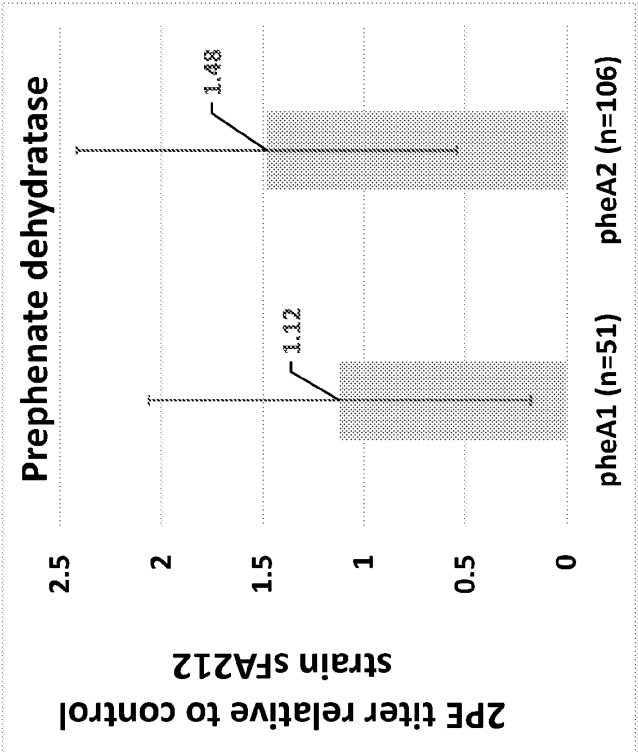


Figure 8B

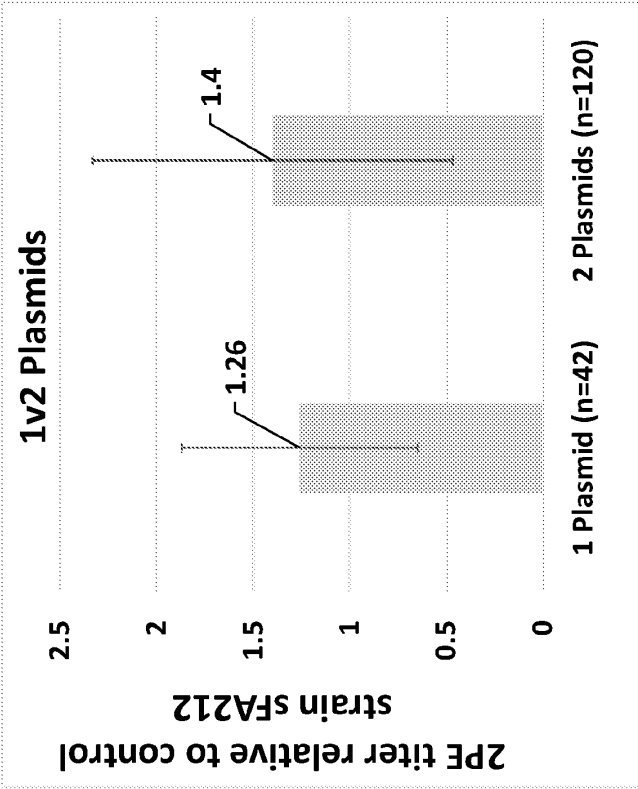


Figure 8A

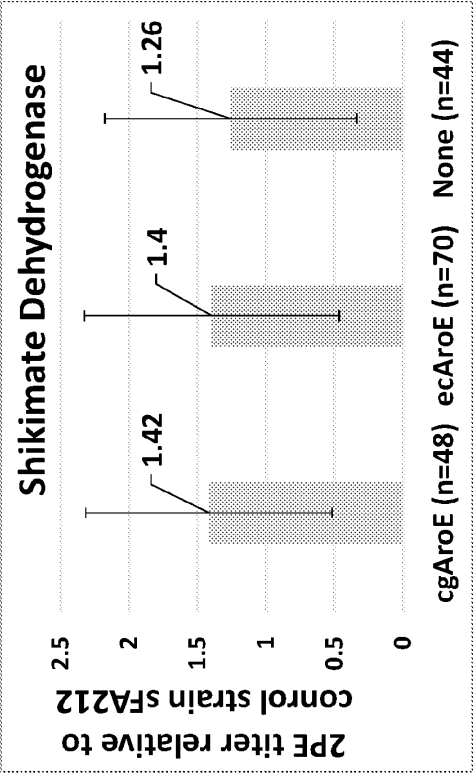


Figure 8D

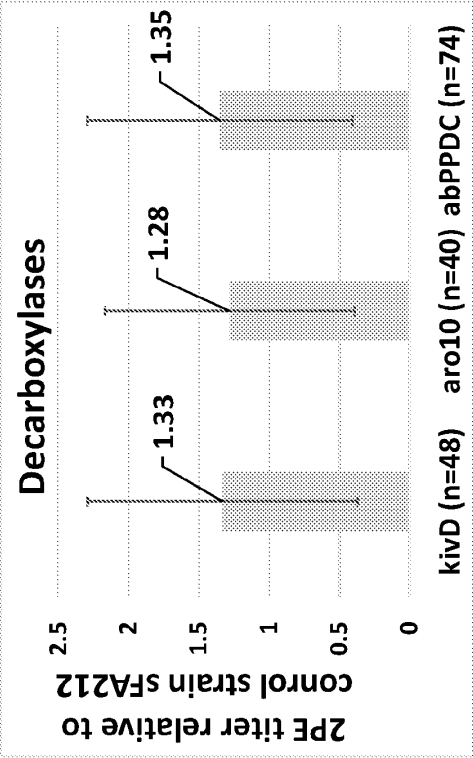


Figure 8E

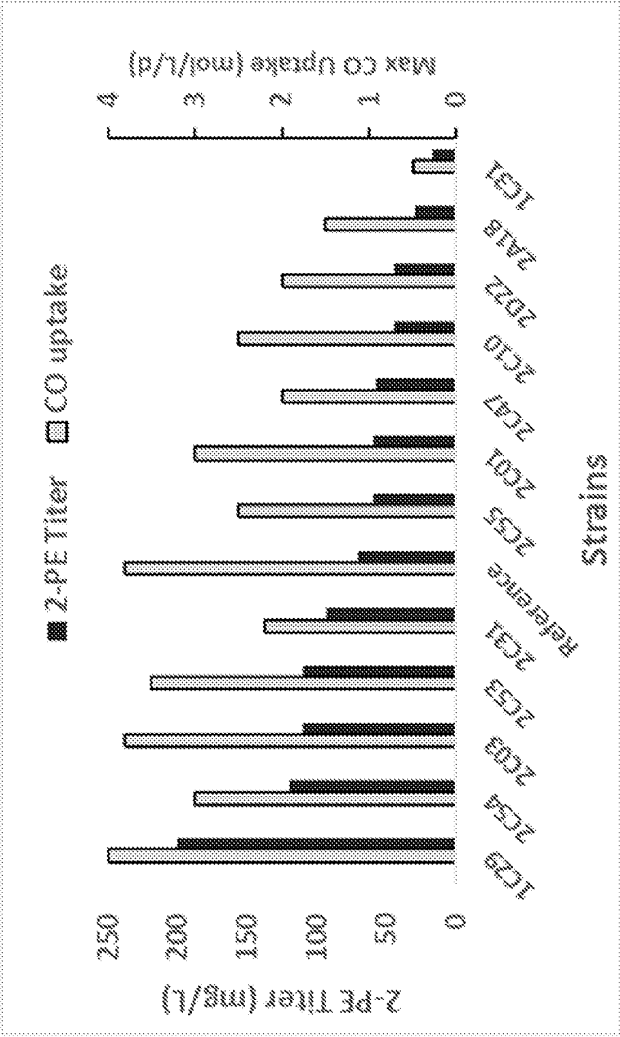


Figure 9A

Figure 9B

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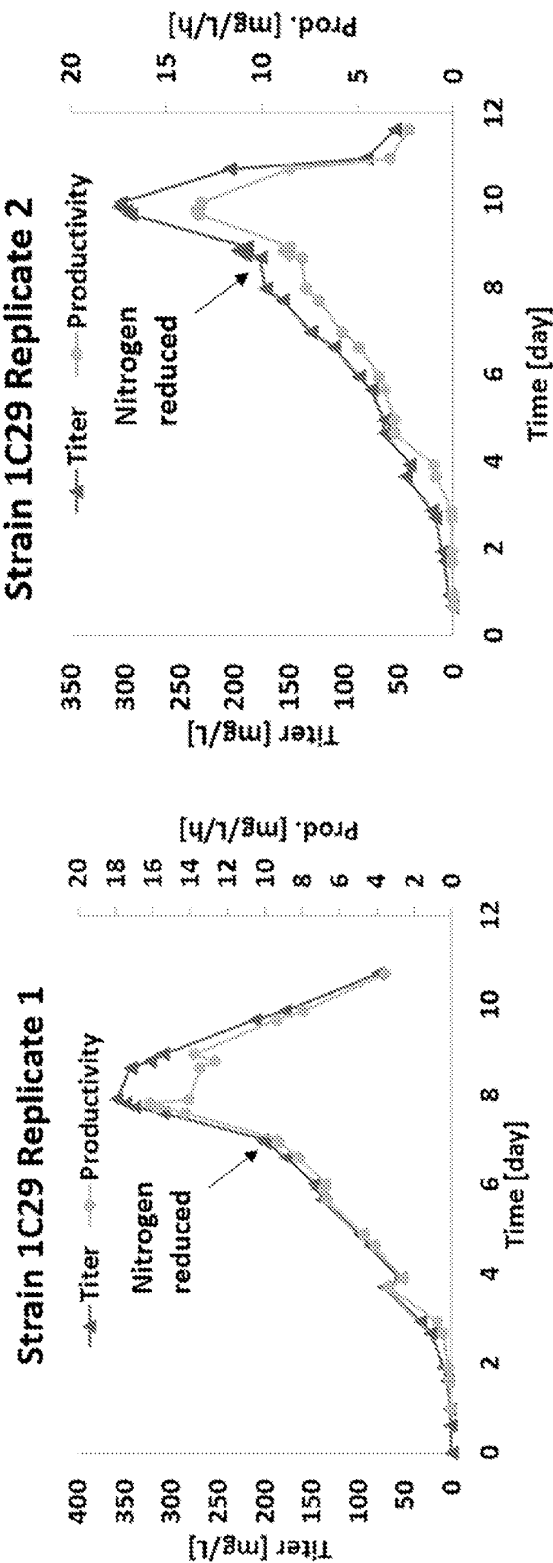


Figure 10A

Figure 10B

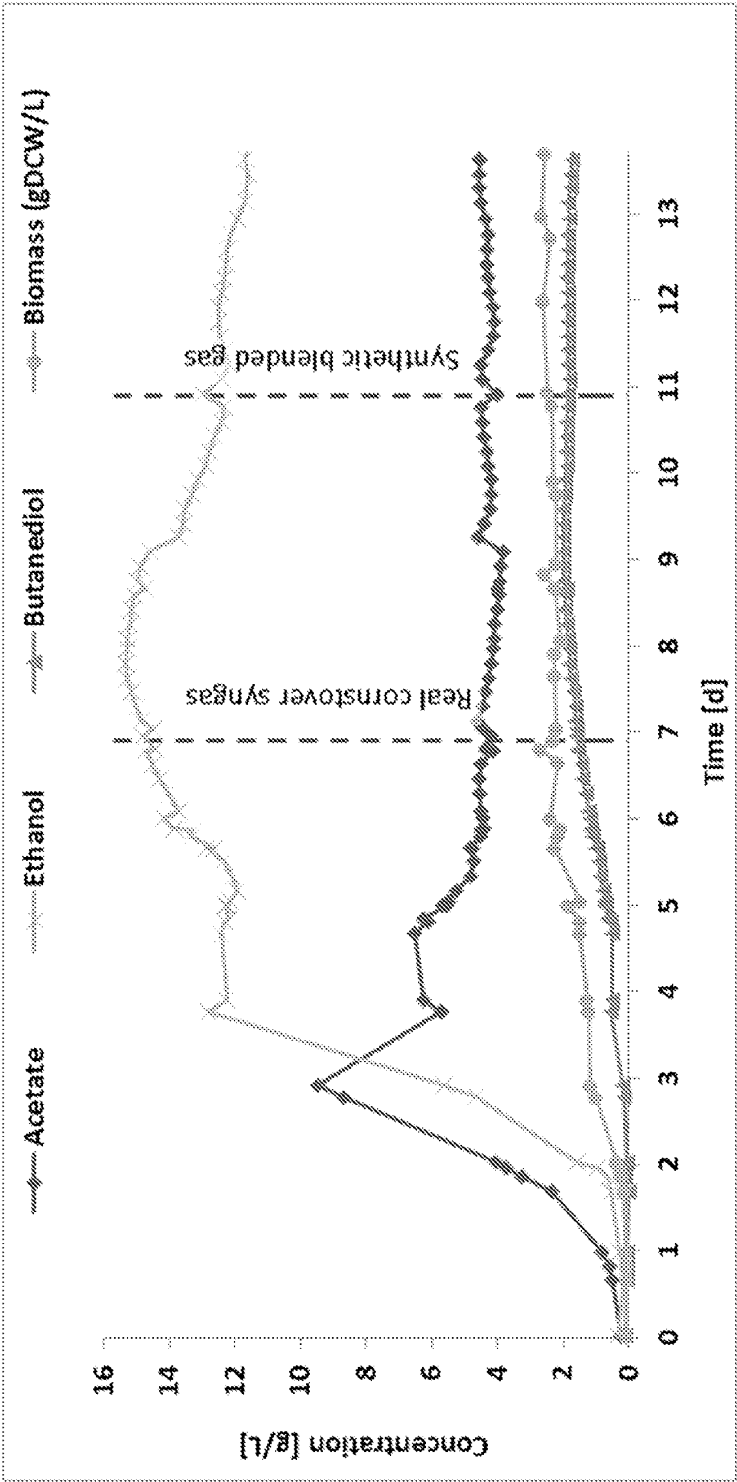


Figure 11A

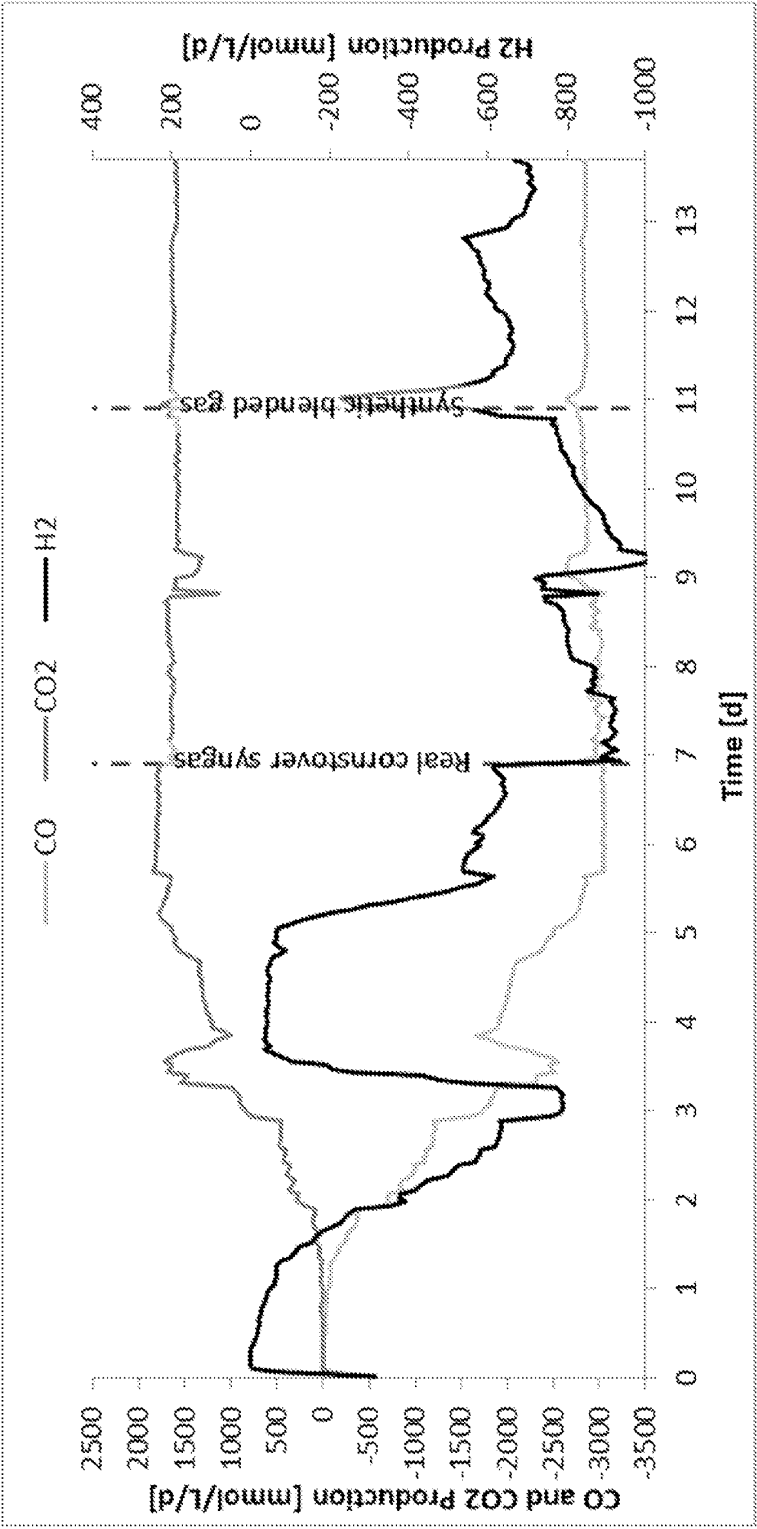


Figure 11B

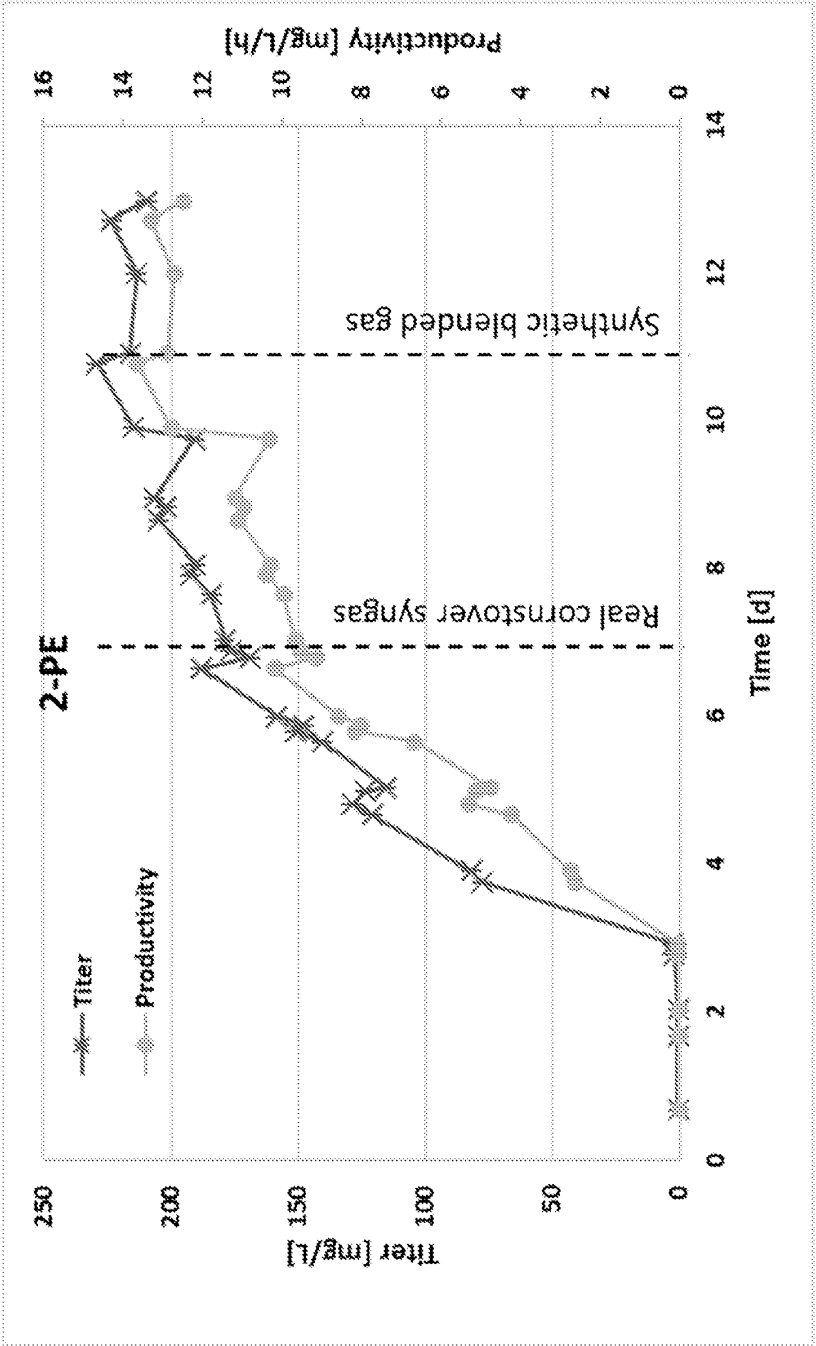


Figure 11C