

Grazix Growth Promotion Post Wean, 35 Days

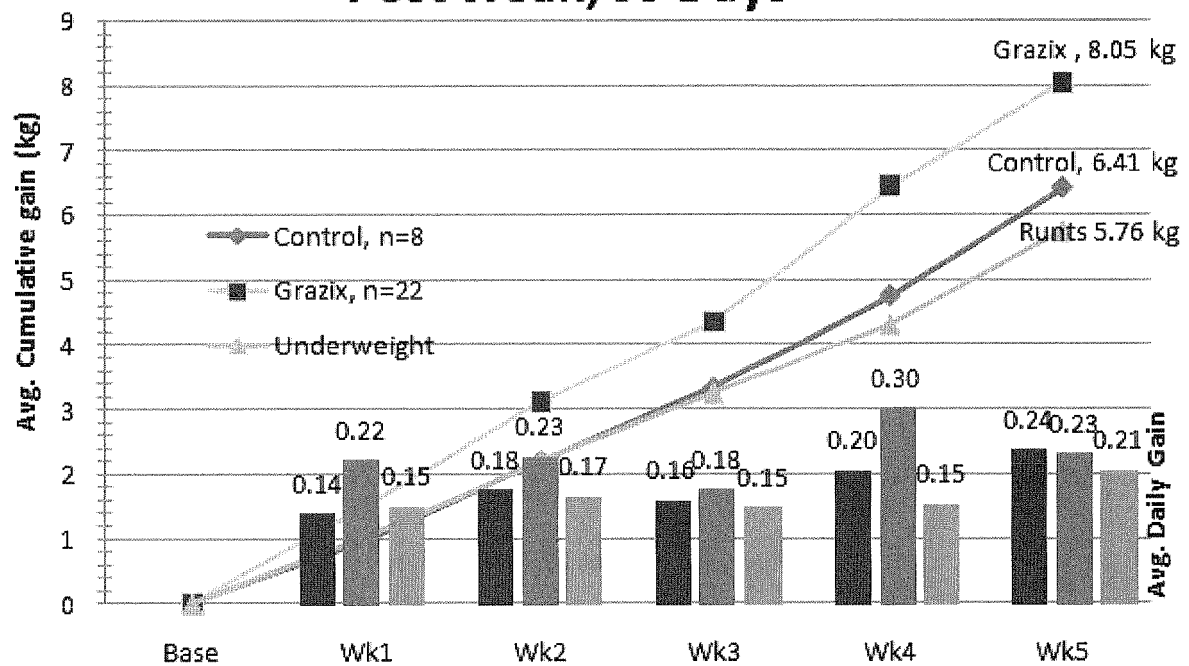


FIG. 1A

	T1	Control 2	T3	T4	Control 5	T6	T7	T8	Control 9	T10
Sow ID	LY32 5	LY421	LY38 6	LY52 1	LY410	LY35 0	LD41 8	LY38 5	LD430	LY46 0
Farrow date	2/11	3/11	3/11	3/11	4/11	4/11	4/11	5/11	6/11	6/11
Breed	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross	Cross
Parity	6	3	4	2	3	5	6	4	3	2
Born alive	10	8	10	7	10	9	12	11	7	9
1st-7 day GI *	++	+++	++	+	++	+	+	+	++	+
8 th -14 day GI	+	+	+	–	+	–	+	+	+	+
Survivor s	10	7	9	7	8	8	12	10	7	9

- GI disorder diarrhea index + mild ++ moderate +++ severe

FIG. 1B

Comparison of Minimum Inhibitory Concentrations (ug/ml) @10 ⁴ – 10 ⁵ CFU Bacteria							
	FURA-P03 herbal oils	Methyl- paraben Cosmetic preservative	Pom/gt/ peroxide	Kathon Industrial germicide	Benzal- konium Chloride antiseptic	Rifaxa-min antibiotic	Triclosan germicide
<i>E. Coli</i>	1,250	1,250	6	8	50	128	5
<i>Pseudomonas A.</i>	5,000	2,500	12	5	250		>300
<i>Staphylococcus A.</i>	2,500	5,000	6	2	0.5	>8	0.1

FIG. 2

Bacterium species		Concentration (dry plant wt. equiv)											
	(ul/ml)	500	250	125	62.5	31.3	15.6	7.81	3.9	1.95	0.98	0.49	
	(ug/ml or ppm)	750	375	188	94	47	23	12	6	3	1.5	0.74	
<i>Escherichia coli</i>		—	—	—	—	—	—	—	—	+	+	+	
<i>Salmonella enterica st. Typh.</i>		—	—	—	—	—	—	—	+	+	+	+	
<i>Staphylococcus aureus</i>		—	—	—	—	—	—	—	—	+	+	+	
<i>(MRSA) Staphylococcus aureus</i>		—	—	—	—	—	—	—	—	+	+	+	
<i>Pseudomonas aeruginosa</i>		—	—	—	—	—	—	—	+	+	+	+	
<i>Listeria monocytogenes</i>		—	—	—	—	—	—	+	+	+	+	+	
<i>Pasteurella multocida</i>		—	—	—	—	—	—	—	+	+	+	+	
<i>Proteus vulgaris</i>		—	—	—	—	—	+	+	+	+	+	+	
<i>Klebsiella pneumoniae</i>		—	—	—	—	—	—	—	—	+	+	+	
<i>Bacillus cereus</i>		—	—	—	—	—	—	—	—	+	+	+	
<i>Bordetella bronchiseptica</i>		—	—	—	—	—	—	—	—	+	+	+	

FIG. 3

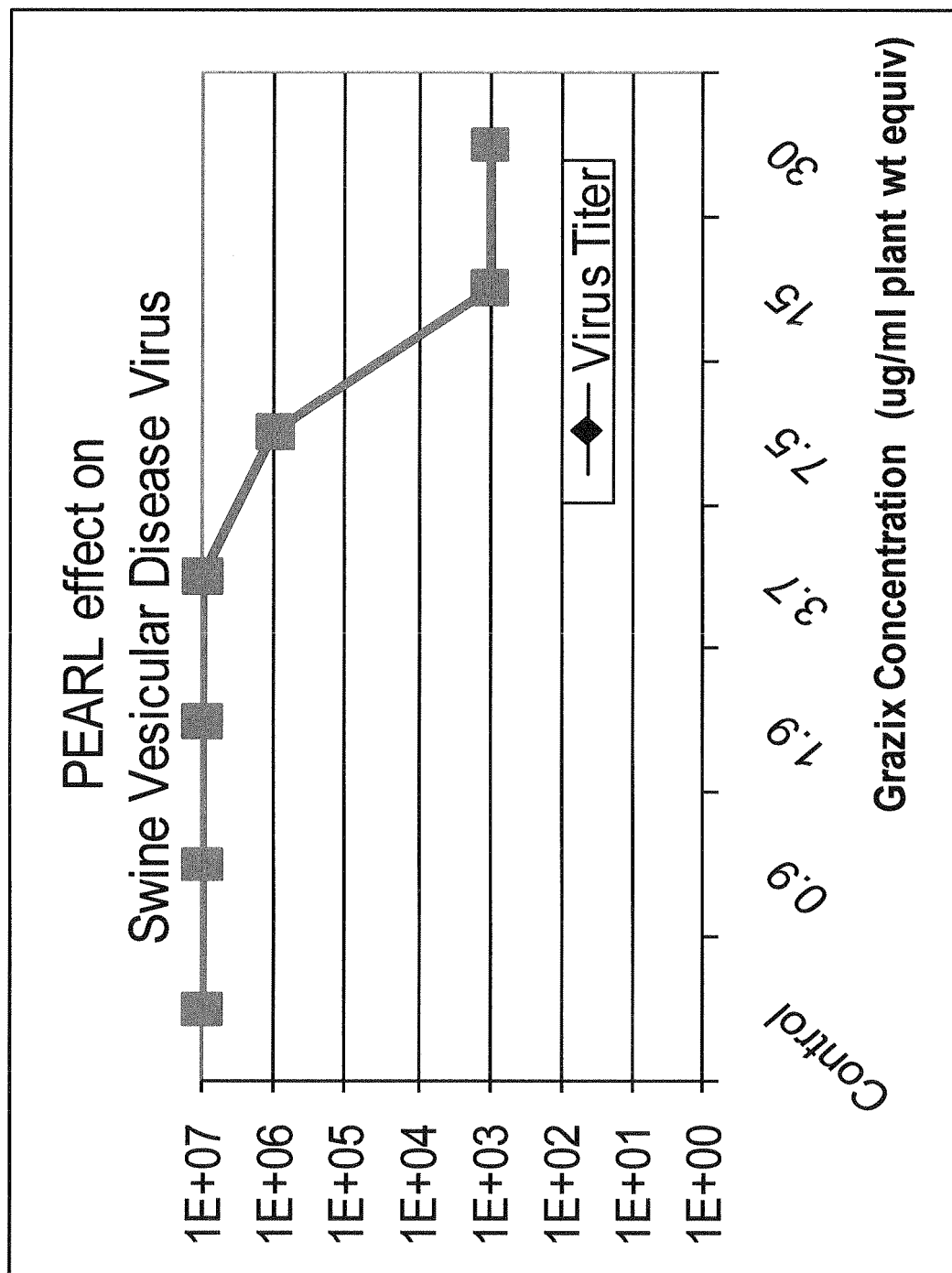


FIG. 4

Inhibition by Grazix-w/ & w/o Enzyme X

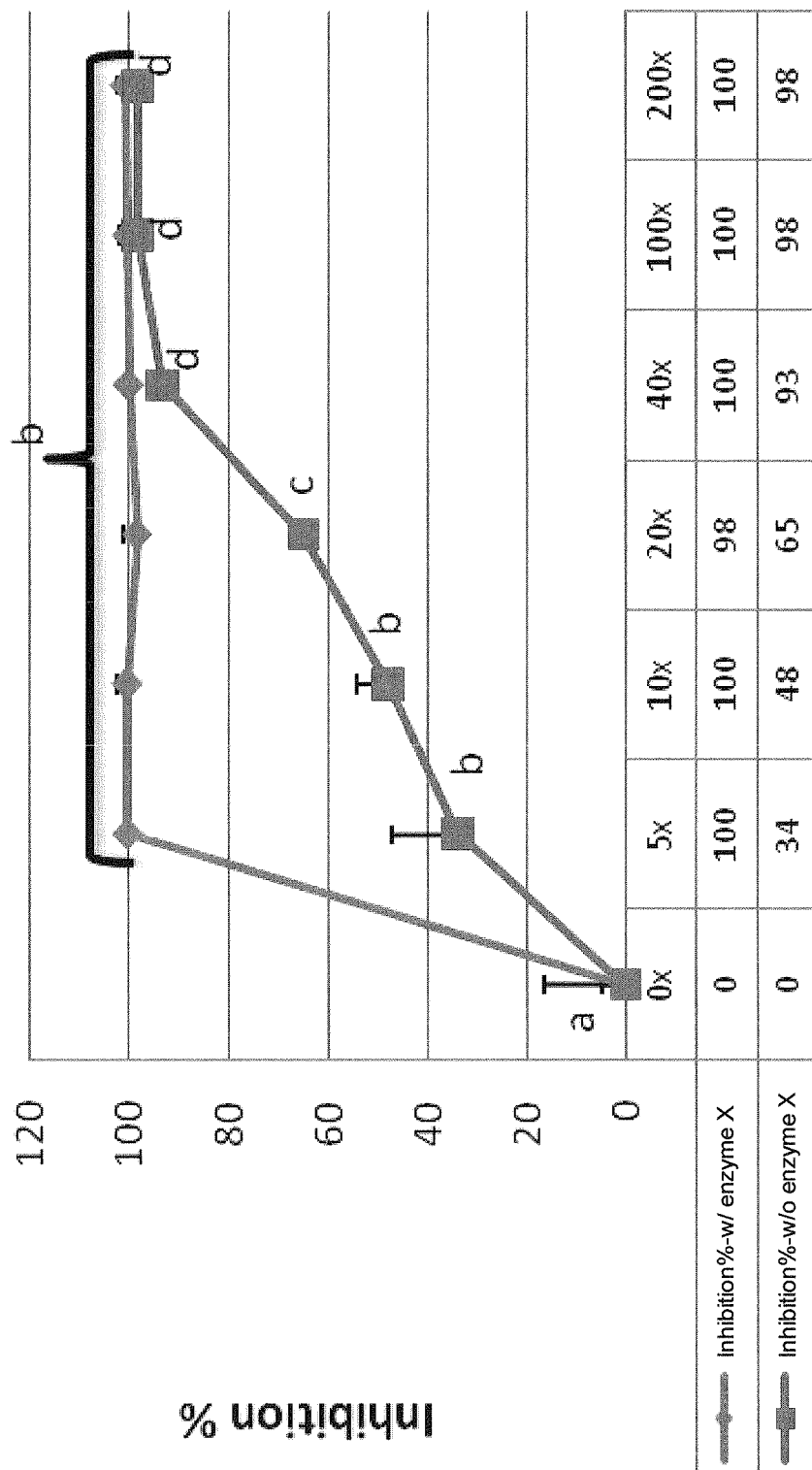


FIG. 5A

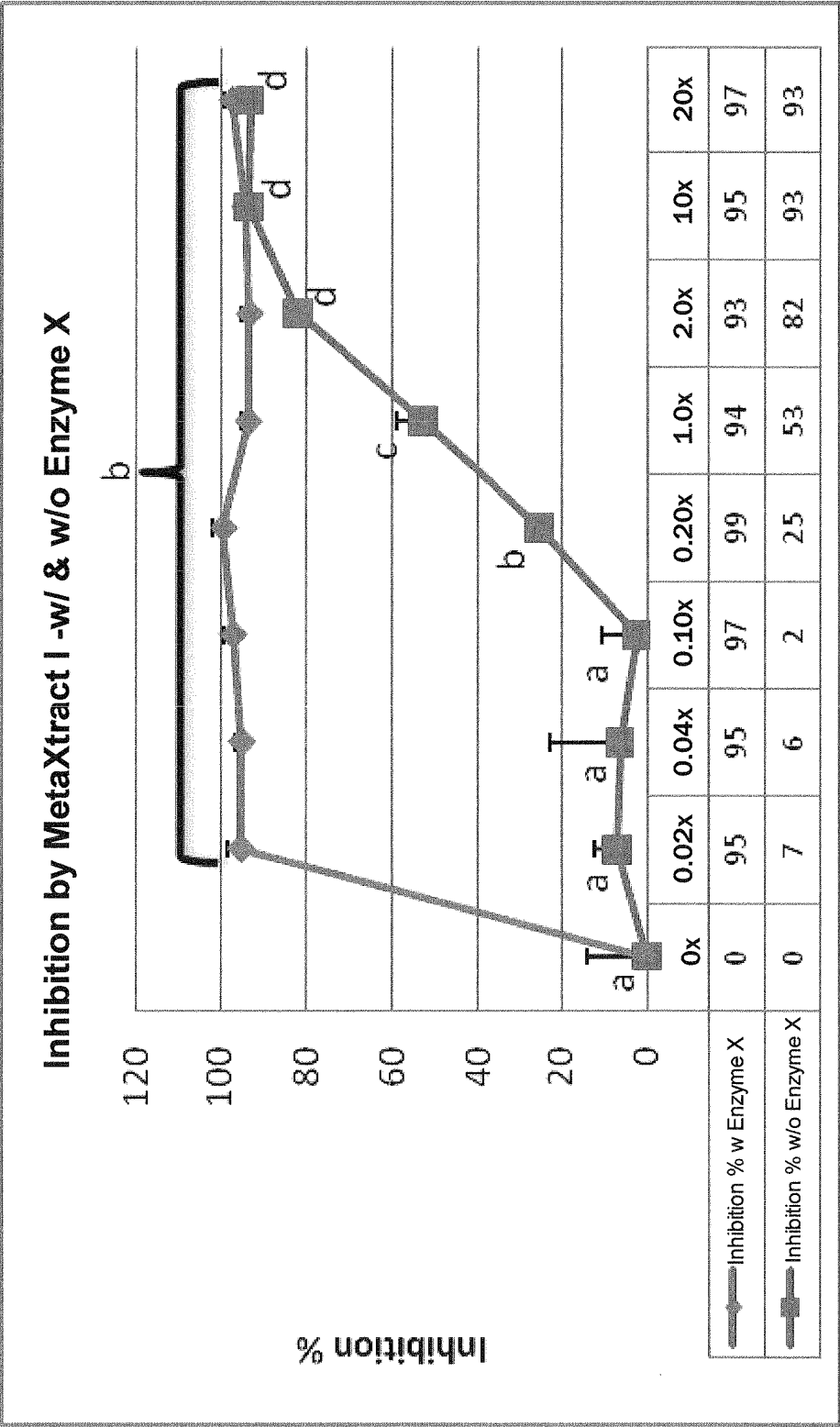


FIG. 5B

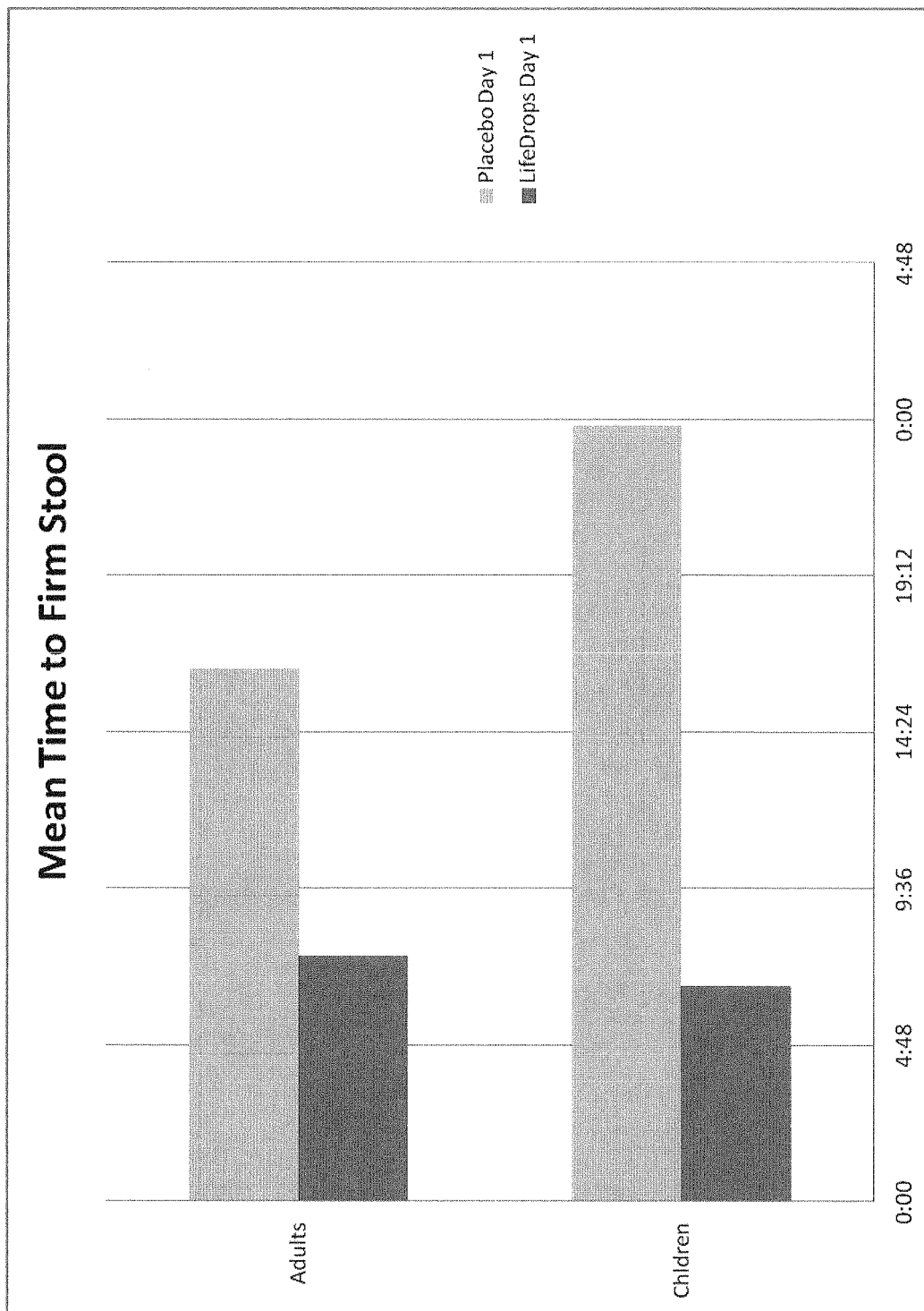


FIG. 6A

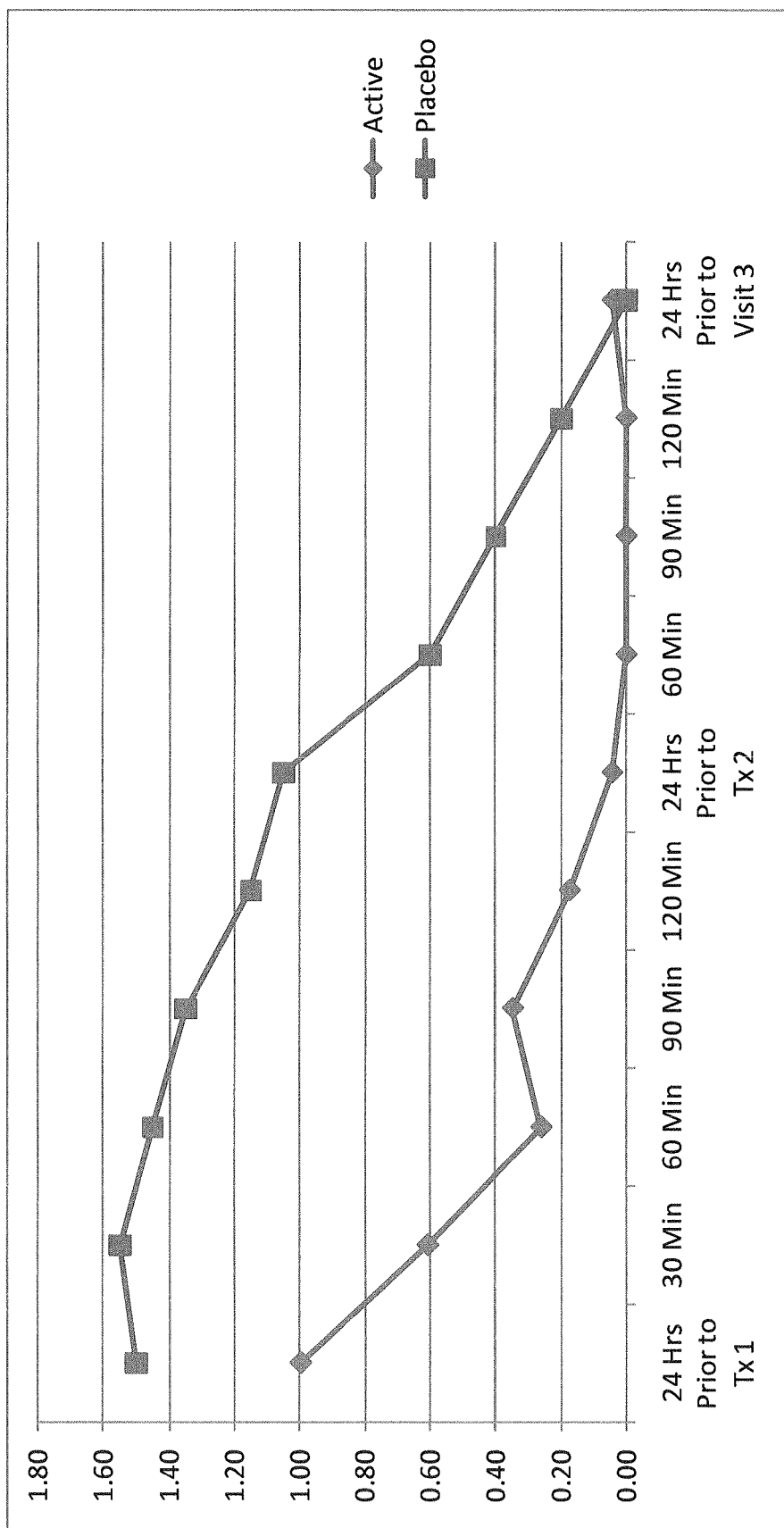


FIG. 6B

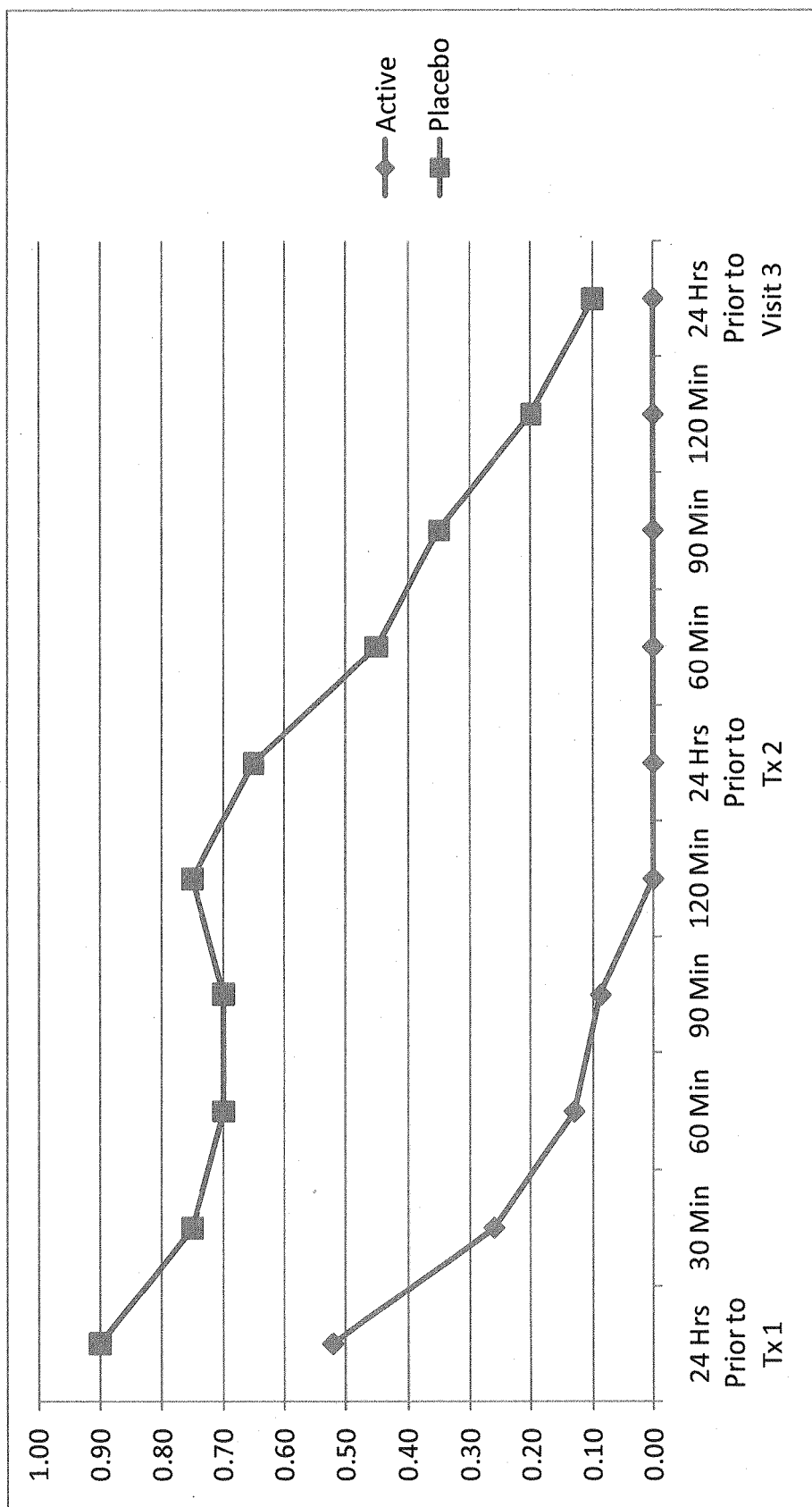


FIG. 6C

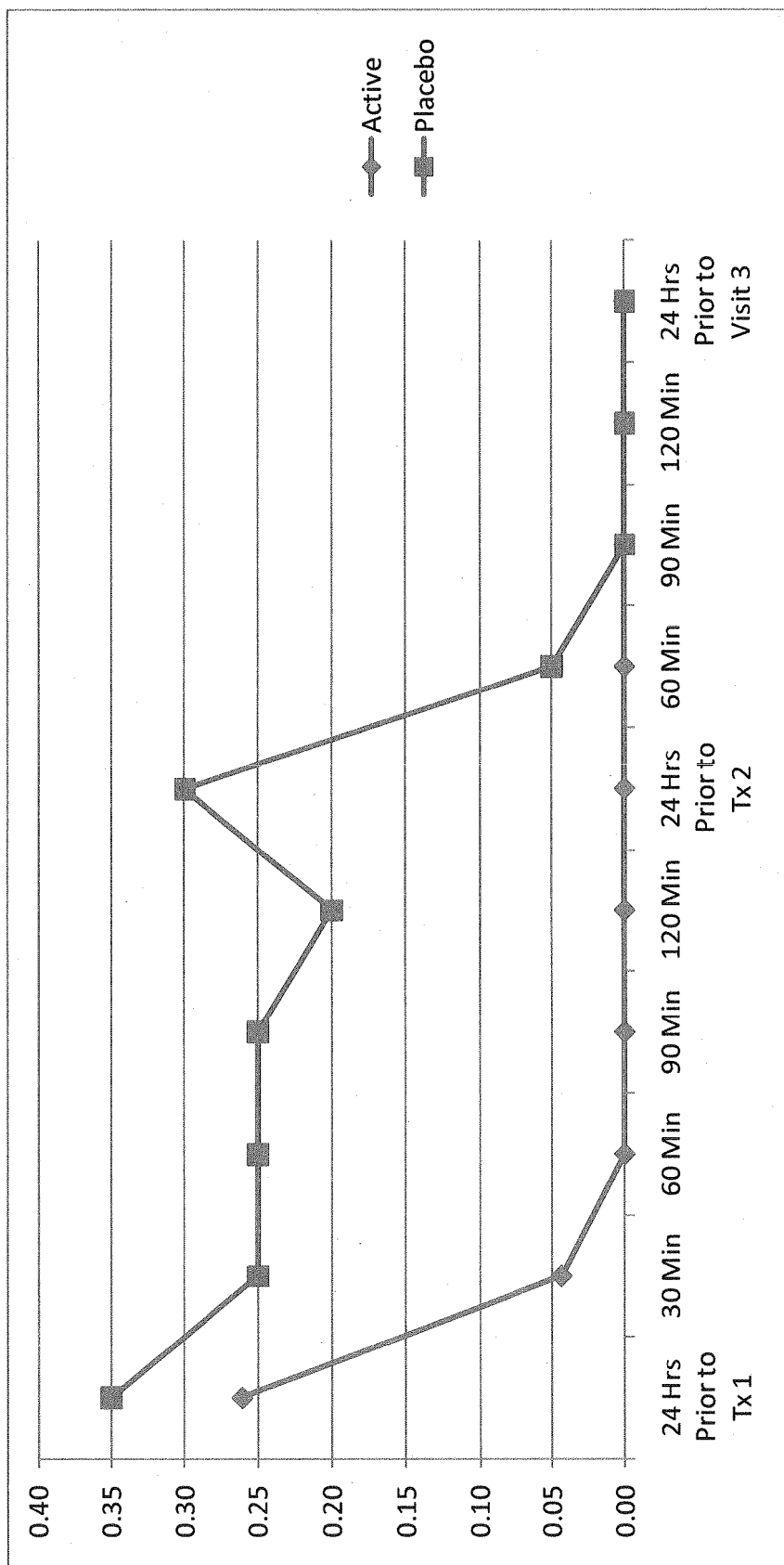


FIG. 6D

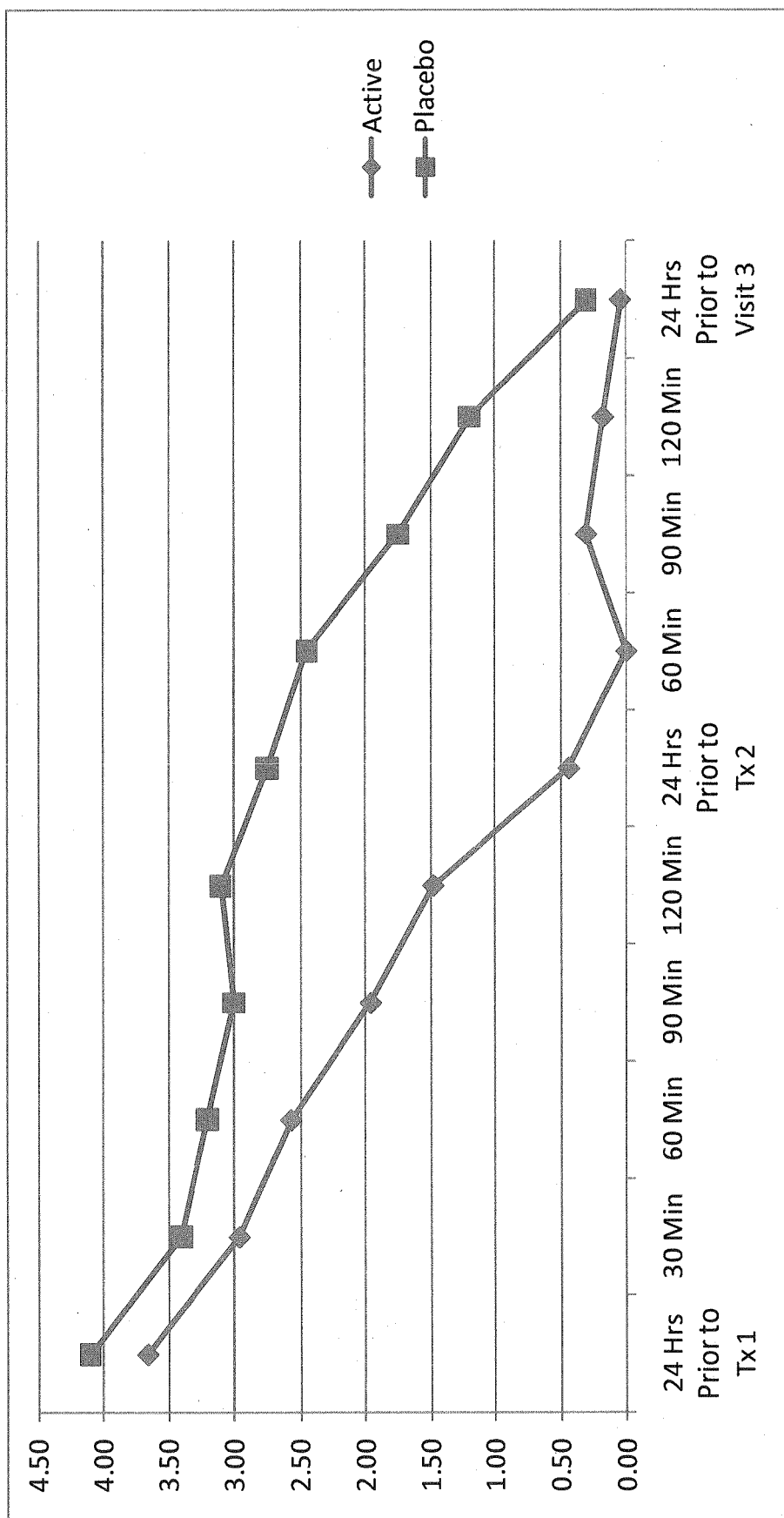


FIG. 6E

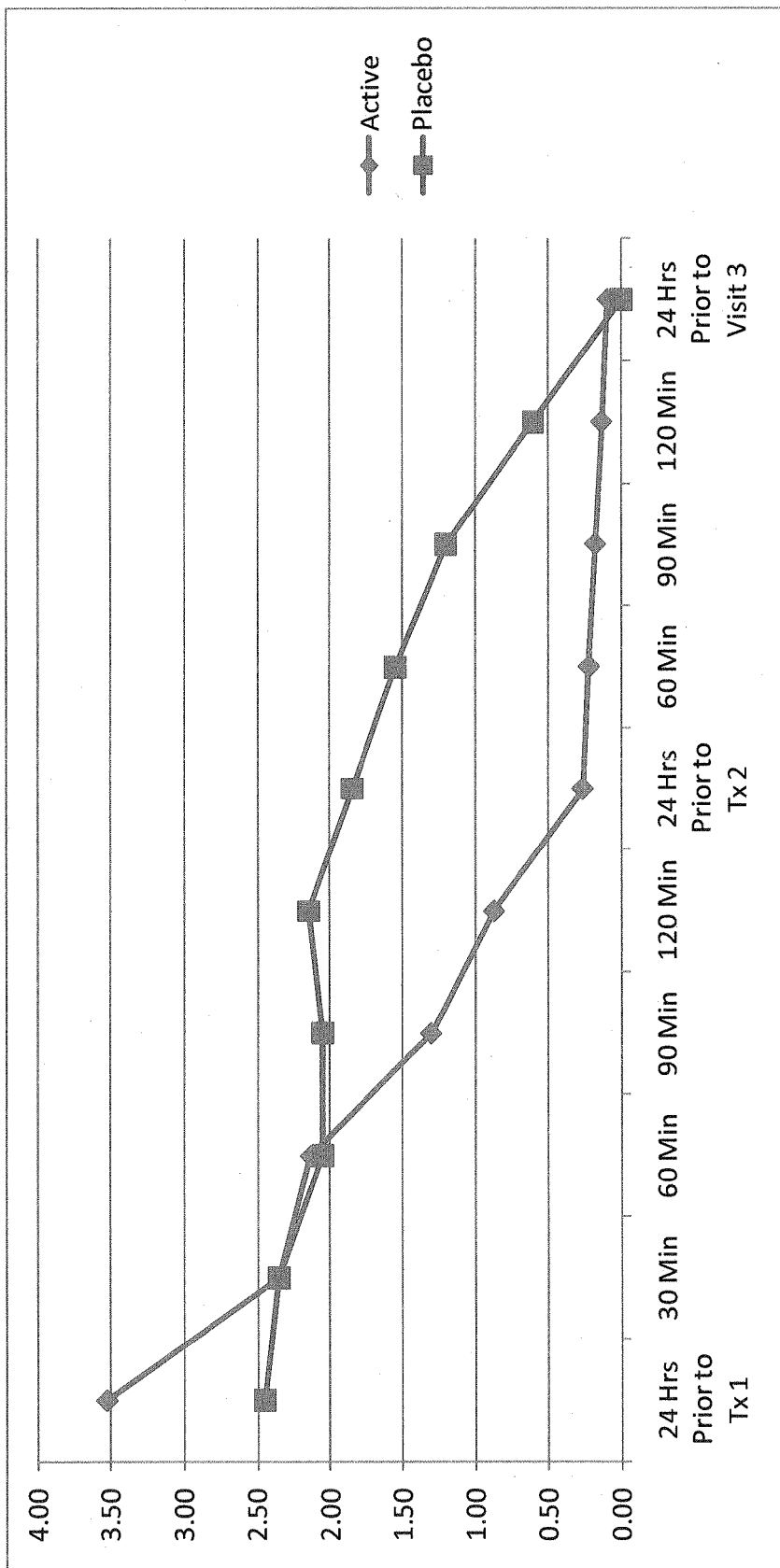


FIG. 6F