

VivoSim Labs, Inc.

NAMkind™ Client Study Report

Scope of work and results for safety and/or efficacy testing in NAMkind™ Liver models

Field	Template Entry
Report Title	NAMkind™ Liver Study Report: Five Test Compounds with Positive and Negative Controls
Study Type	Liver safety dose-response study: five test compounds plus two experimental controls
SOW / Protocol No.	TBD
Report Version / Date	2026-Sep-10
Prepared by Study Director	
Approved by Project Lead	
Client / Sponsor Contacts	

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1. Executive Summary

This report summarizes a NAMkind™ Liver dose-response safety study of five test compounds: Fasiglifam/TAK-875, Pioglitazone, Desipramine, Lobeglitazone, Benzotropine. Benzobromarone served as the positive control and Diphenhydramine served as the negative control. Albumin, CTG, GSH, and LDH were reported as percent of vehicle control across compound-specific concentration ranges. Results were reviewed against the supplied plot thresholds of 85% for Albumin/CTG/GSH and 115% for LDH. Control responses support interpretation of the experimental run and are presented separately from the five test compounds. Assay-level findings should be integrated with exposure, protocol, and compound-context information before decisions are made.

2. Scope of Work Review

The source package contained a Word report template, a seven-slide liver plot deck, and an Excel workbook of raw percent-of-vehicle values. The experimental set comprised five test compounds plus two experimental controls: Benzobromarone as positive control and Diphenhydramine as negative control. An executed SOW or protocol was not included; contractual scope, protocol identifiers, treatment duration, and formal deviations remain not provided.

SOW Element	Report Placeholder
Study title	Five-Compound NAMkind™ Liver Dose-Response Safety Study with Experimental Controls
Service package(s)	Liver standard readout panel (Albumin, CTG, GSH, LDH)
Compound count and concentrations	5 test compounds + 2 experimental controls; compound-specific concentration series; multiple observations per concentration
Treatment duration	Not provided
Primary readouts	Albumin, CTG, GSH, and LDH as % of vehicle control
Deliverables promised	Source package includes report template, Excel raw percent-of-control values, and PowerPoint dose-response plots
Deviations from SOW	Cannot assess; executed SOW/protocol not provided

3. Study Objectives and Context of Use

The dataset supports early identification of concentration-dependent liver assay signals across five test compounds. Benzobromarone and Diphenhydramine are experimental controls and are not included in test-compound ranking. The dataset alone does not establish clinical risk, causality, or a regulatory conclusion.

4. Test Articles and Controls

Test articles were Fasiglifam/TAK-875, Pioglitazone, Desipramine, Lobeglitazone, Benzotropine. Benzobromarone was the positive control, Diphenhydramine was the negative control, and vehicle-control rows were included in the raw workbook. Compound-specific tested uM and x Cmax ranges are summarized in Section 9.2. Stock concentrations, dose rationale, handling notes, solubility, and precipitation observations were not provided.

5. NAMkind™ Model System

NAMkind™ Liver model and the readouts Albumin, CTG, GSH, and LDH. Human-derived multicellular 3D liver spheroid format in 96-well plates. 21-day culture, 7 treatments over a 17-day period.

5.1 NAMkind™ Liver Model

Component	Template Language
Model format	Human-derived multicellular 3D liver spheroids in 96-well plates.
Relevant cell types	hepatocytes, stellate cells, Kupffer cells, and endothelial cells

Safety readouts	ATP for tissue health/metabolic viability; LDH for injury/cytotoxicity; Albumin for hepatocyte function; GSH or other oxidative-stress marker if included.
Potential outputs	Risk classification, relative risk ranking, margin-of-safety or dose-response summaries, and mechanistic interpretation.

6. Experimental Design and Workflow

Five test compounds and two experimental controls were evaluated over compound-specific concentration series expressed in uM and x Cmax. Benzobromarone was the positive control and Diphenhydramine was the negative control. Raw endpoint values were normalized to vehicle and reported as percent of vehicle control. Dosing cadence, sampling timepoints, assay timing, formal acceptance criteria, and exclusion rules were not provided.

Workflow Step	What to Include
Compound receipt and intake QC	Compound ID, amount, format, SDS, storage, solvent, stock concentration, acceptance status.
Model preparation	Donor or lot, culture format, seeding day, baseline QC gate, exclusions.
Dosing	Start day, repeat dosing cadence, concentration range, vehicle concentration, controls.
Endpoint acquisition	Assay day(s), instrument, plate map, raw data file names, image acquisition.
Analysis and interpretation	Normalization, fitting, thresholds, statistical method, report-ready outputs.

7. Analytical Methods and Data Processing

Values in the supplied addenda for Albumin, CTG, GSH, and LDH responses are normalized as percent of vehicle control. For Albumin, CTG, and GSH, curves are fitted using four-parameter logistic model in efficacy space and an extra sum-of-squares F-test (nested-model comparison) is performed to obtain p values relative to a flat control response. The LDH LOEC is the lowest concentration that produces a statistically significant change in LDH relative to untreated controls based on Dunnet multiple-comparison test. Plots display means with SD and fitted dose-response curves.

8. Quality Control and Run Acceptance

Benzobromarone was designated as the positive control and Diphenhydramine as the negative control. Vehicle observations are present in the raw workbook. Formal response acceptance criteria, donor or lot criteria, replicate-precision limits, and final run disposition TBD.

QC Domain	Acceptance / Evidence Placeholder	Disposition
Baseline model function	TBD	PASSED
Vehicle control	TBD	PASSED
Positive control	TBD	PASSED
Replicate precision	TBD	PASSED
Assay interference / precipitation	TBD	NONE

9. Results

Results are organized first for the five test compounds, followed by the positive and negative controls. The test-compound table summarizes tested ranges, threshold-crossing endpoints, assay-level interpretation, and conservative next action. Control results are presented separately and are not ranked with test compounds.

9.1 Results Snapshot

The five test compounds are shown first, followed by the positive and negative controls.

compound_id	ALB IC50 (uM)	CTG IC50 (uM)	GSH IC50 (uM)	LOEC LDH (uM)	ALB curve pvalue	CTG curve pvalue	GSH curve pvalue	LDH LOEC pvalue
Fasiglifam/TAK-875	8.6142	22.1782	19.4561	44	1.4014E-06	4.1247E-08	8.1406E-06	7.4385E-15
Pioglitazone	7.3787	14.8486	11.3375	18	6.8341E-07	4.0545E-08	5.0649E-11	1.6844E-07
Desipramine	11.8067	37.0239	50.2593	18	7.6342E-07	1.7028E-08	1.3333E-02	1.2837E-06
Lobeglitazone	8.4223	11.1082	13.5403	6	9.5100E-05	1.5311E-06	1.5876E-06	1.7691E-03
Benztropine	1.7890	3.0189	3.5584	none	1.2950E-04	3.5240E-01	3.2698E-06	not sig
Benzobromarone	2.0021	3.0073	8.2961	10	4.0400E-03	1.2047E-03	4.9438E-03	<<0.0001
Diphenhydramine	1917.4852	8294.7223	10000.0000	none	1.8067E-01	3.7412E-01	not sig	not sig

9.2 Compound Summary Table

Compound ID	Model	Concentration Range	Primary Affected Endpoint(s)	Integrated Interpretation	Recommended Action
Fasiglifam/TAK-875	Liver 21-day	0.04-44 uM (0.01-10x Cmax)	Albumin, CTG, GSH, LDH	Multi-endpoint concentration-dependent signal observed	Mechanistic follow-up and exposure-context review
Pioglitazone	Liver 21-day	0.02-18 uM (0.006-6x Cmax)	Albumin, CTG, GSH, LDH	Multi-endpoint concentration-dependent signal observed	Mechanistic follow-up and exposure-context review
Desipramine	Liver 21-day	0.06-50 uM (0.03-26.7x Cmax)	Albumin, CTG, GSH, LDH	Multi-endpoint concentration-dependent signal observed	Mechanistic follow-up and exposure-context review
Lobeglitazone	Liver 21-day	0.003-3 uM (0.03-30x Cmax)	Albumin, CTG, GSH	Multi-endpoint concentration-dependent signal observed	Mechanistic follow-up and exposure-context review
Benztropine	Liver 21-day	0.02-18 uM (0.03-30x Cmax)	Albumin, CTG, GSH, LDH	Multi-endpoint concentration-dependent signal observed	Mechanistic follow-up and exposure-context review

10. Study Limitations and Applicability Domain

Applicability is limited to the supplied NAMkind™ Liver assay conditions and four reported endpoints. Protocol details, donor or lot information, exposure duration, free concentration, metabolism, solubility, precipitation, assay interference, control acceptance criteria, and confirmatory statistics are TBD. Threshold crossings are descriptive assay signals, not clinical-risk classifications. Comparisons among the five test compounds should account for different tested uM and x Cmax ranges.

11. Conclusions and Recommended Next Steps

- The study evaluated five test compounds, with Benzobromarone as positive control and Diphenhydramine as negative control.
- Control results are presented separately and are not part of test-compound ranking.
- Use the five-compound summary and plots to prioritize exposure-context review rather than to make a standalone advancement decision.
- For test compounds with multi-endpoint changes, confirm reproducibility and evaluate exposure margin, precipitation/interference, and mechanism.
- Retain the raw workbook and supplied plot deck as source records for subsequent quantitative fitting or statistical analysis.

13. Appendices

Appendix	Contents
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A	Executed SOW / protocol summary and change orders
B	Compound submission form and receipt QC
C	Full endpoint plots and statistical output
D	Raw data file manifest and plate maps
E	Microscopy / histology image set and annotations
F	Deviations, exclusions, and investigation records
G	Glossary and abbreviation list

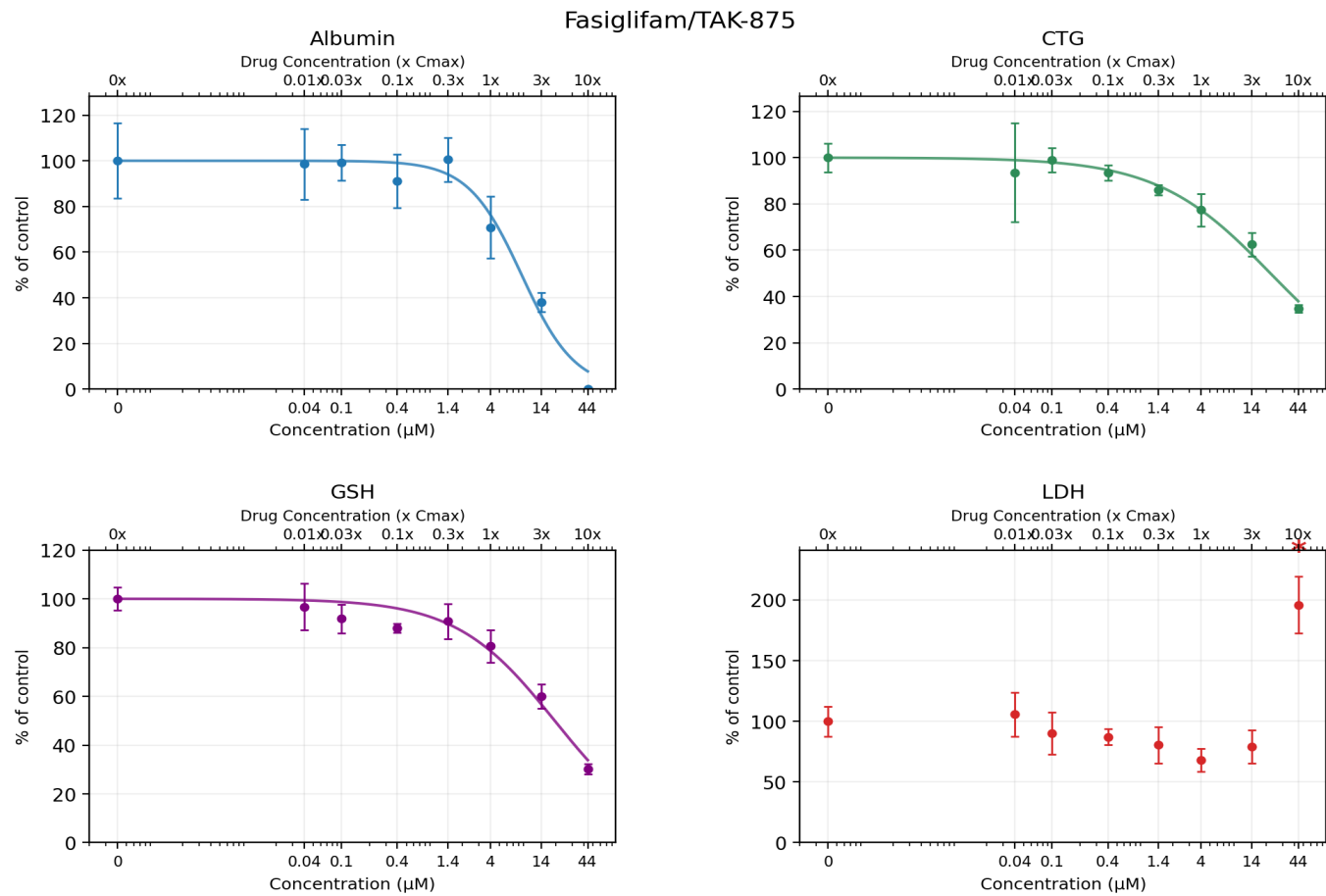
Appendix B. Full Endpoint Plots and Statistical Output

Benzobromarone was the positive control and Diphenhydramine was the negative control. The controls are summarized separately from the five test compounds.

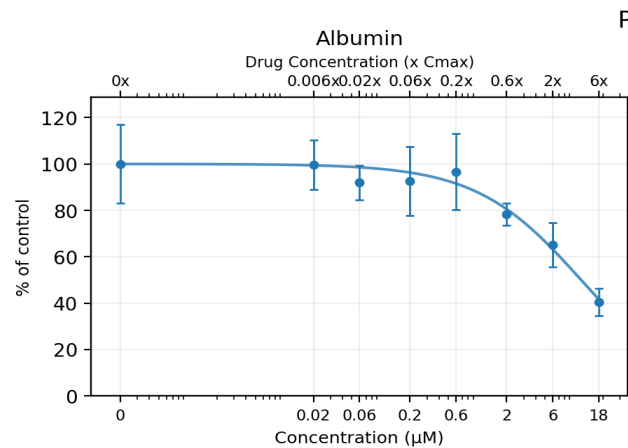
Control	Role	Tested Range	Threshold-Crossing Endpoint(s)	Descriptive Result
Benzobromarone	Positive control	0.3-10 uM (0.03-1x Cmax)	Albumin, CTG, GSH, LDH	Multi-endpoint concentration-dependent signal observed
Diphenhydramine	Negative control	0.3-10.4 uM (1-35x Cmax)	None by supplied mean thresholds	No concentration-level mean crossed the thresholds

The five test compounds are shown first, followed by the positive and negative controls. Albumin, CTG, GSH, and LDH responses as percent of vehicle control with SD. Curves are fitted using four-parameter logistic model in efficacy space and an extra sum-of-squares F-test (nested-model comparison) is performed to obtain p values relative to a flat control response. The LDH LOEC (*) is the lowest concentration that produces a statistically significant change in LDH relative to untreated controls based on Dunnett multiple-comparison test.

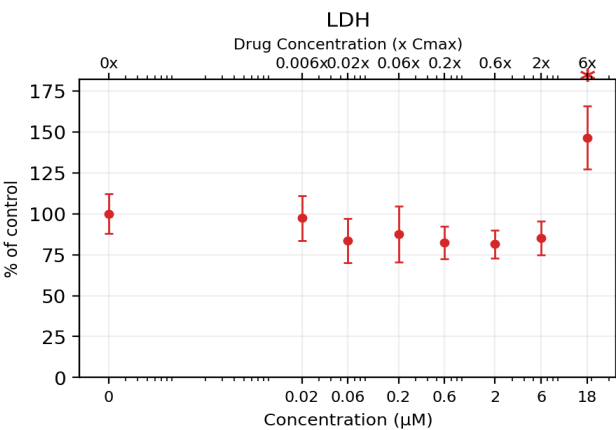
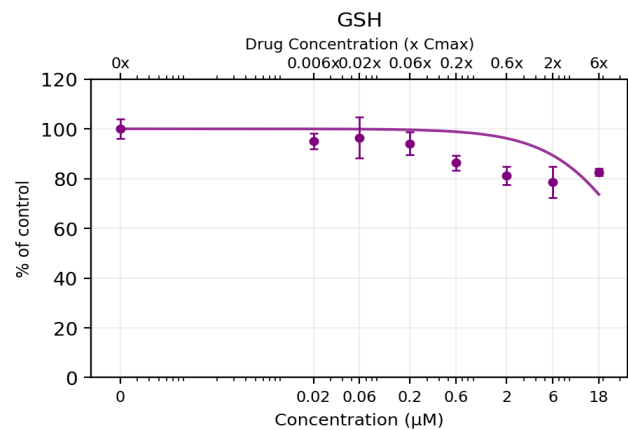
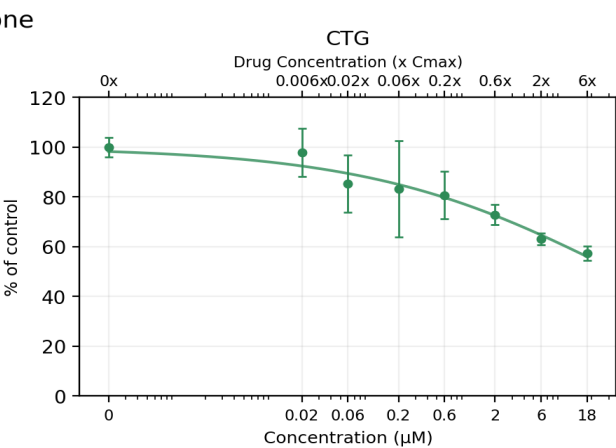
Fasiglifam/TAK-875



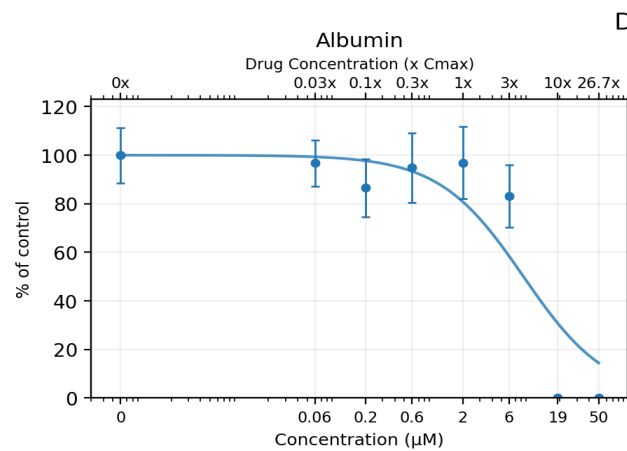
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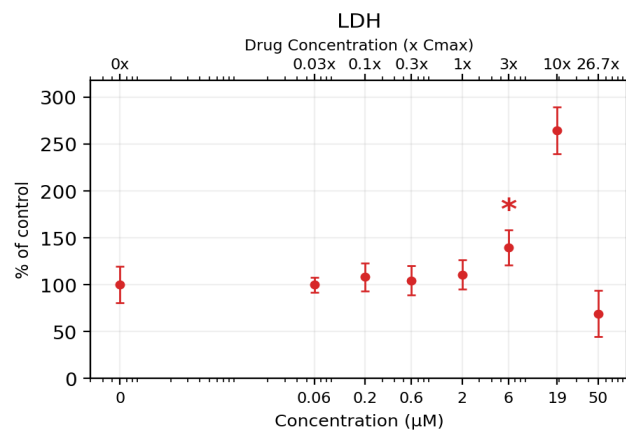
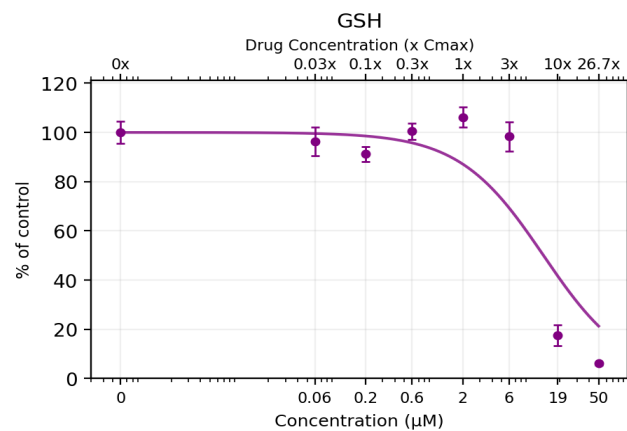
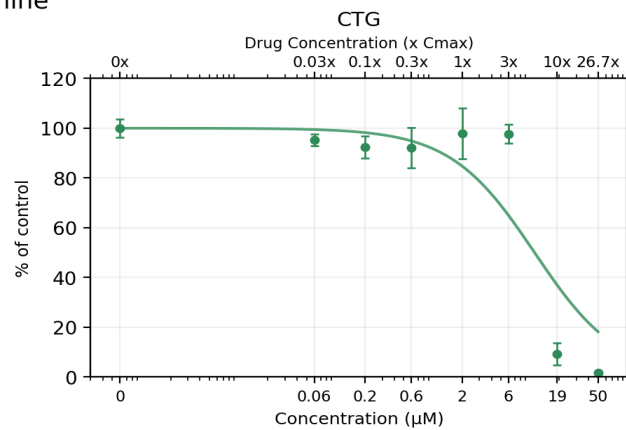
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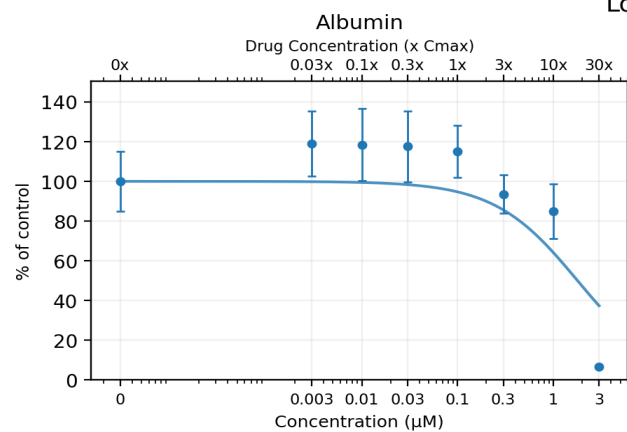
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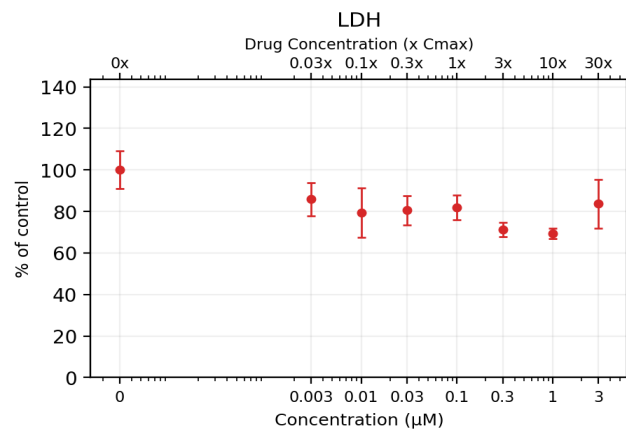
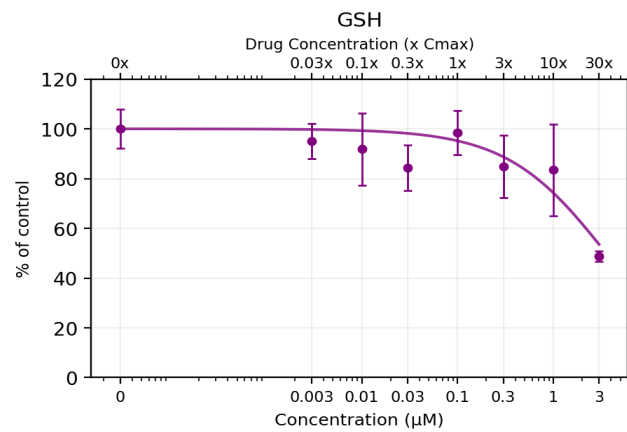
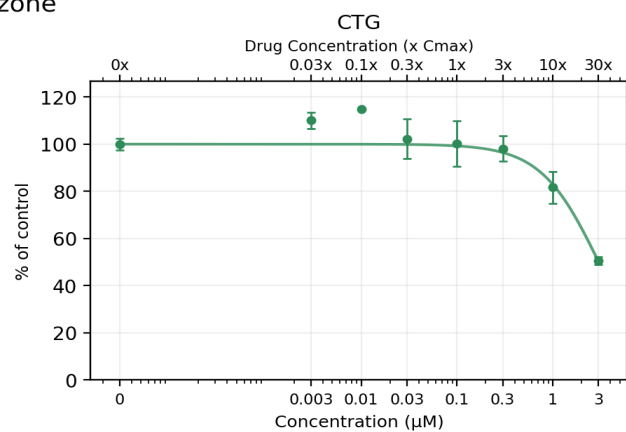
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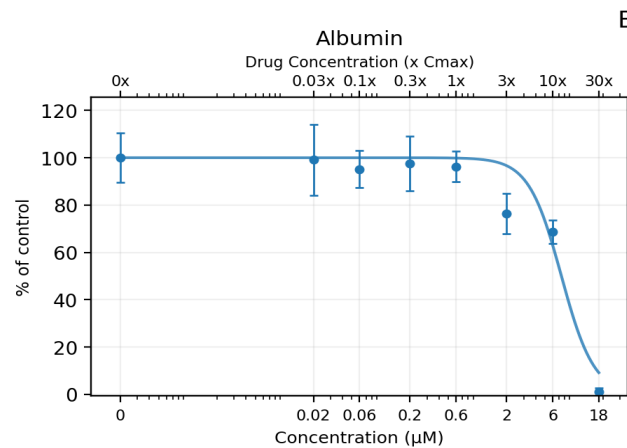
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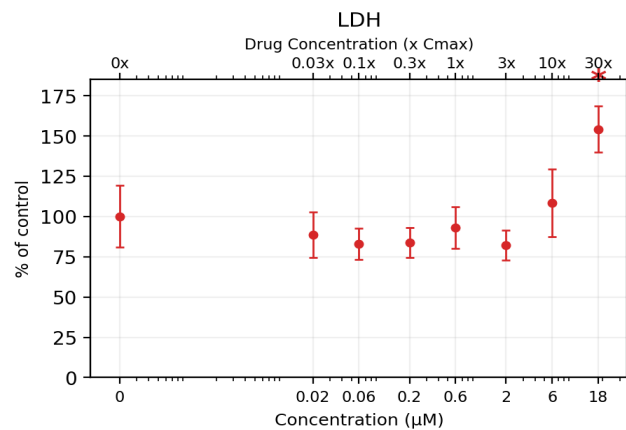
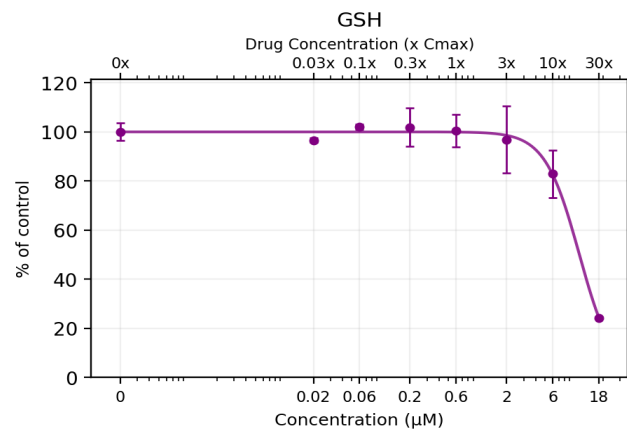
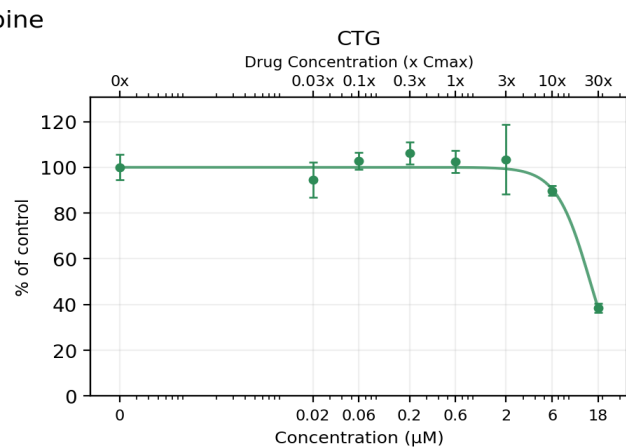
Lobeglitazone



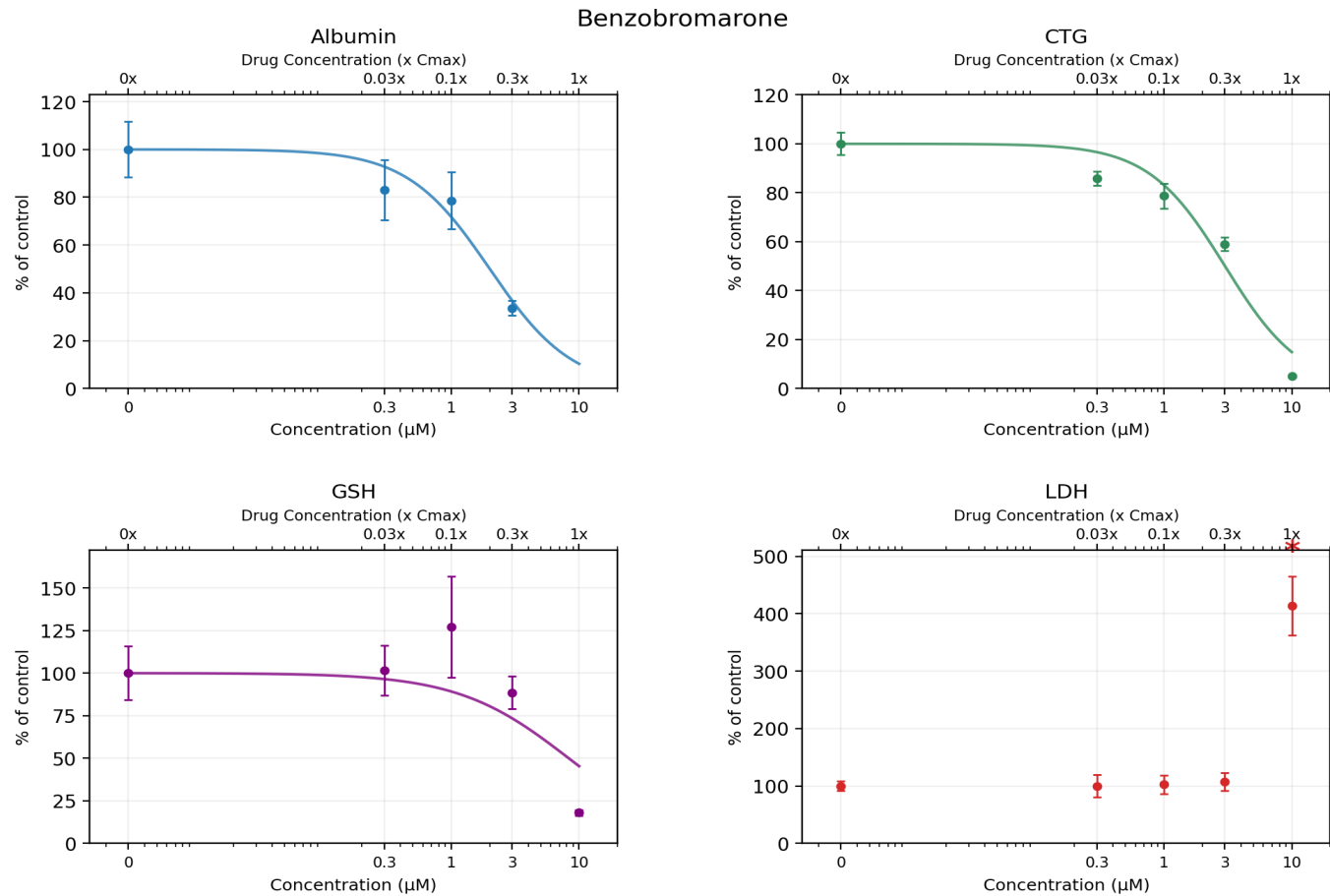
Benztropine



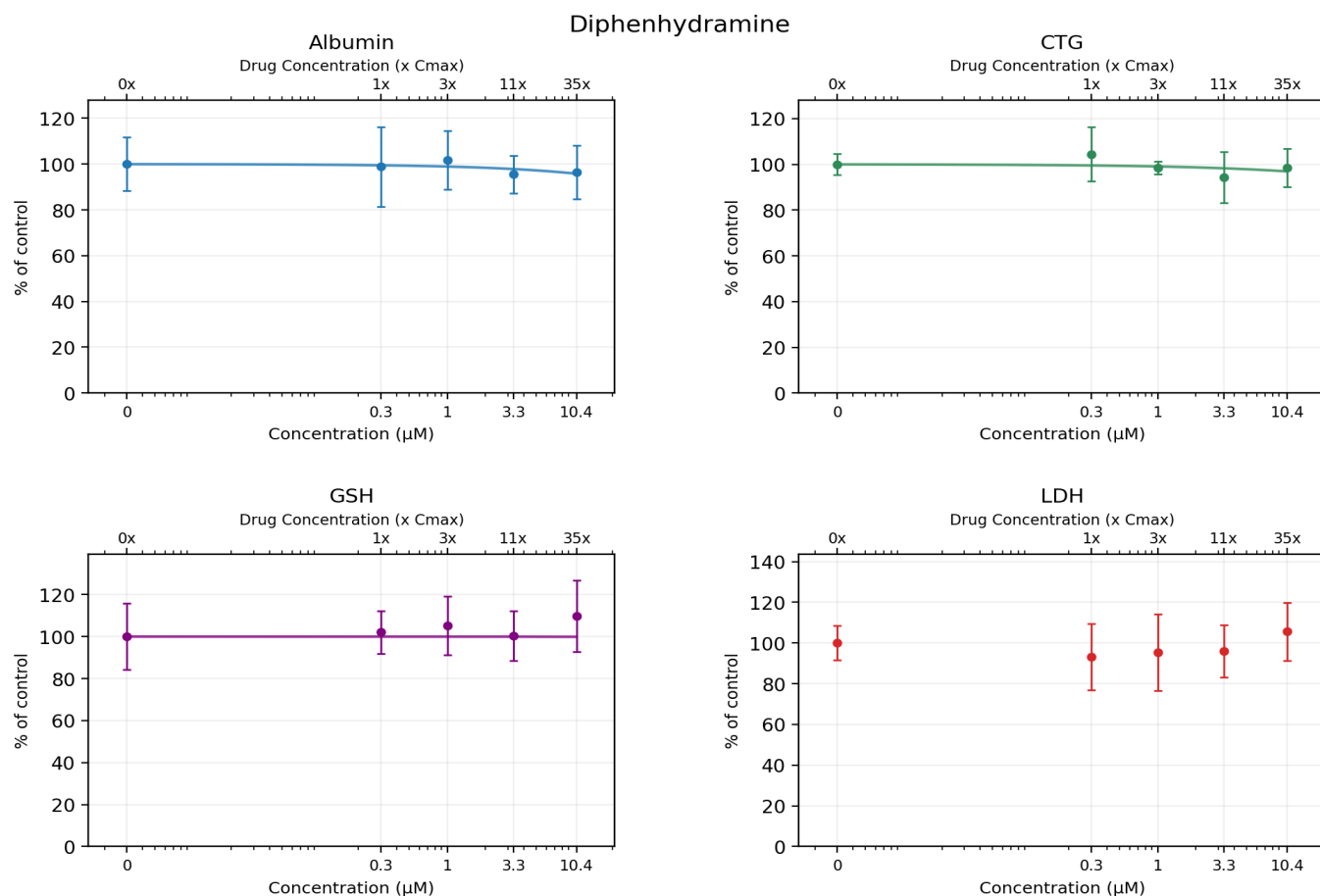
Benztropine



Benzobromarone (positive control)



Diphenhydramine (negative control)



drug_id	ALB IC50 (uM)	CTG IC50 (uM)	GSH IC50 (uM)	LOEC LDH (uM)		ALB curve pvalue	CTG curve pvalue	GSH curve pvalue	LDH LOEC pvalue
Benzobromarone	2.0021	3.0073	8.2961	10		4.0400E-03	1.2047E-03	4.9438E-03	0 (<<0.0001)
Benztropine	7.3787	14.8486	11.3375	18		6.8341E-07	4.0545E-08	5.0649E-11	1.6844E-07
Desipramine	8.4223	11.1082	13.5403	6		9.5100E-05	1.5311E-06	1.5876E-06	1.7691E-03
Diphenhydramine	1917.4852	8294.7223	10000.0000	none		1.8067E-01	3.7412E-01	not sig	not sig
Fasiglifam/TAK-875	8.6142	22.1782	19.4561	44		1.4014E-06	4.1247E-08	8.1406E-06	7.4385E-15
Lobeglitazone	1.7890	3.0189	3.5584	none		1.2950E-04	3.5240E-01	3.2698E-06	not sig
Pioglitazone	11.8067	37.0239	50.2593	18		7.6342E-07	1.7028E-08	1.3333E-02	1.2837E-06

LOEC = Lowest Effect Concentration that is statistically significant based on

Appendix C. Raw Data Manifest

DRUG NAME	x Cmax	pct_ALB	pct_CTG	pct_GSH	pct_LDH	uM
VEHICLE	0	100.711791	105.263742	85.640337	115.633785	0
VEHICLE	0	98.182507	98.894548	107.937978	104.372899	0
VEHICLE	0	112.558207	94.972109	104.066602	99.649408	0

VEHICLE	0	113.986385	102.492895	121.192576	104.527553	0
VEHICLE	0	88.659426	94.564417	77.633054	95.342696	0
VEHICLE	0	114.315921	103.812288	103.529453	92.849888	0
VEHICLE	0	94.63296			99.961337	0
VEHICLE	0	89.598655			88.5956	0
VEHICLE	0	77.309066			102.815877	0
VEHICLE	0	111.071742			101.777862	0
VEHICLE	0	95.806286			85.429131	0
VEHICLE	0	103.167055			109.043965	0
Benzobromarone	0.03	89.362947	87.187808	85.084632	134.422899	0.3
Benzobromarone	0.03	84.048011	82.582046	113.515005	84.131613	0.3
Benzobromarone	0.03	66.611807	87.991681	105.959708	90.721433	0.3
Benzobromarone	0.03	81.527825			97.573379	0.3
Benzobromarone	0.03	73.822546			83.872109	0.3
Benzobromarone	0.03	102.838277			109.717626	0.3
Benzobromarone	0.1	67.707416	84.489048		113.81726	1
Benzobromarone	0.1	100.729608	76.632659	148.040523	129.856683	1
Benzobromarone	0.1	75.508135	74.989777	106.223763	98.35189	1
Benzobromarone	0.1	72.712436			91.864298	1
Benzobromarone	0.1	72.246423			96.223435	1
Benzobromarone	0.1	82.393698			84.910124	1
Benzobromarone	0.3	32.886757	56.122085	78.405236	129.337676	3
Benzobromarone	0.3	36.027535	59.132823	97.227346	107.175014	3
Benzobromarone	0.3	34.996848	61.651665	90.28437	95.809278	3
Benzobromarone	0.3	36.971408			89.321686	3
Benzobromarone	0.3	32.337626			99.701833	3
Benzobromarone	0.3	28.632268			122.640384	3
Benzobromarone	1		4.462192	19.69801	348.668078	10
Benzobromarone	1		5.397519	17.870561	484.907503	10
Benzobromarone	1		5.301806	16.513652	386.036606	10
Benzobromarone	1				405.292302	10
Benzobromarone	1				393.667062	10
Benzobromarone	1				463.214045	10
VEHICLE	0	100.711791	105.263742	85.640337	115.633785	0
VEHICLE	0	98.182507	98.894548	107.937978	104.372899	0
VEHICLE	0	112.558207	94.972109	104.066602	99.649408	0
VEHICLE	0	113.986385	102.492895	121.192576	104.527553	0
VEHICLE	0	88.659426	94.564417	77.633054	95.342696	0
VEHICLE	0	114.315921	103.812288	103.529453	92.849888	0
VEHICLE	0	94.63296			99.961337	0
VEHICLE	0	89.598655			88.5956	0

VEHICLE	0	77.309066			102.815877	0
VEHICLE	0	111.071742			101.777862	0
VEHICLE	0	95.806286			85.429131	0
VEHICLE	0	103.167055			109.043965	0
Diphenhydramine	1	98.668802	92.081922		92.695234	0.3
Diphenhydramine	1	110.041055	105.623577	109.351028	99.389904	0.3
Diphenhydramine	1	117.868121	115.638974	94.80613	105.203835	0.3
Diphenhydramine	1	80.784308			85.376706	0.3
Diphenhydramine	1	75.267215			110.808066	0.3
Diphenhydramine	1	110.43608			65.394924	0.3
Diphenhydramine	3	91.026548	96.639827	112.252776	94.147406	1
Diphenhydramine	3	112.862438	96.987546	114.513656	105.982346	1
Diphenhydramine	3	112.355955	101.725369	89.248134	80.653215	1
Diphenhydramine	3	99.000328			126.118782	1
Diphenhydramine	3	83.092575			73.699041	1
Diphenhydramine	3	111.932592			91.292866	1
Diphenhydramine	11	79.357931	81.766663	90.642628	109.146194	3
Diphenhydramine	11	97.681521	98.234852	113.420802	80.081783	3
Diphenhydramine	11	96.551698	103.008415	97.123627	89.942922	3
Diphenhydramine	11	96.875452			84.026763	3
Diphenhydramine	11	102.184229			103.594388	3
Diphenhydramine	11	100.374009			108.784461	3
Diphenhydramine	35	84.715612	89.32319	94.580137	104.215624	10
Diphenhydramine	35	105.765146	105.599346	128.069419	109.458122	10
Diphenhydramine	35	85.253276	100.465947	106.543959	105.203835	10
Diphenhydramine	35	96.978			95.083192	10
Diphenhydramine	35	91.411244			89.528765	10
Diphenhydramine	35	114.254032			130.635194	10
VEHICLE	0	102.626303	99.50776221	98.16328658	121.5517445	0
VEHICLE	0	109.187775	94.07823024	105.2850739	107.7154348	0
VEHICLE	0	75.7767594	106.4140075	96.55163955	90.13434915	0
VEHICLE	0	109.334946			90.41768655	0
VEHICLE	0	84.38431			92.84494361	0
VEHICLE	0	118.689907			97.33584139	0
Fasiglifam/TAK-875	10	0	32.78315147	32.46613272	212.5266613	44
Fasiglifam/TAK-875	10	0	35.25925671	28.60489504	177.2794887	44
Fasiglifam/TAK-875	10	0	35.94081672	29.23317981	232.1619431	44
Fasiglifam/TAK-875	10	0			200.0928717	44
Fasiglifam/TAK-875	10	0			180.4575899	44
Fasiglifam/TAK-875	10	0			173.1663741	44
Fasiglifam/TAK-875	3	41.1487521	57.27398942	64.85959414	99.85754425	14

Fasiglifam/TAK-875	3	34.7178286	63.02135325	54.88752813	83.21619431	14
Fasiglifam/TAK-875	3	34.9157439	67.36084816	60.26934375	66.29150696	14
Fasiglifam/TAK-875	3	39.0390508			88.82627482	14
Fasiglifam/TAK-875	3	34.2028968			67.59958129	14
Fasiglifam/TAK-875	3	44.1658033			68.72348631	14
Fasiglifam/TAK-875	1	75.0858174	74.43748351	87.82694419		4
Fasiglifam/TAK-875	1	63.1167903	85.41071449	79.36671716	64.23731081	4
Fasiglifam/TAK-875	1	58.0535512	72.25683568	74.55845287	68.4448712	4
Fasiglifam/TAK-875	1	58.8137306			76.67110037	4
Fasiglifam/TAK-875	1	77.5091229			76.29803946	4
Fasiglifam/TAK-875	1	92.5450652			54.41966991	4
Fasiglifam/TAK-875	0.3	88.4629264	83.67296593	89.22057732		1.4
Fasiglifam/TAK-875	0.3	111.19929	88.87531123	84.220516	83.02730271	1.4
Fasiglifam/TAK-875	0.3	87.6848048	84.89954448	88.57389475	85.64817365	1.4
Fasiglifam/TAK-875	0.3	102.777326			64.14286501	1.4
Fasiglifam/TAK-875	0.3	111.485815			101.448956	1.4
Fasiglifam/TAK-875	0.3	101.11541			67.97736449	1.4
Fasiglifam/TAK-875	0.1	100.830646	86.19439377	101.1138333		1.4
Fasiglifam/TAK-875	0.1	90.428209	91.11332943	89.27485082	95.46581456	0.4
Fasiglifam/TAK-875	0.1	80.937305	95.90662398	86.73411504	77.9791747	0.4
Fasiglifam/TAK-875	0.1	87.2162147			90.97491677	0.4
Fasiglifam/TAK-875	0.1	85.662173			86.02123456	0.4
Fasiglifam/TAK-875	0.1	111.103964			85.36483625	0.4
Fasiglifam/TAK-875	0.03	90.562831	93.22628022	94.08357506	120.1492244	0.1
Fasiglifam/TAK-875	0.03	106.585047	99.89386481	96.16896537	89.66684244	0.1
Fasiglifam/TAK-875	0.03	105.610551	103.6424449	85.15880365	89.01516642	0.1
Fasiglifam/TAK-875	0.03	102.4755			80.22226245	0.1
Fasiglifam/TAK-875	0.03	91.1254254			94.06329443	0.1
Fasiglifam/TAK-875	0.03				68.067088	0.1
Fasiglifam/TAK-875	0.01	101.961889	69.67803747	86.67064264	137.4469726	0.04
Fasiglifam/TAK-875	0.01	95.0557705	99.82559407	105.7040837	94.43635534	0.04
Fasiglifam/TAK-875	0.01	78.1260944	111.0374858	97.82660689	115.5686031	0.04
Fasiglifam/TAK-875	0.01	96.6364504			87.14513958	0.04
Fasiglifam/TAK-875	0.01	121.097252			101.448956	0.04
Fasiglifam/TAK-875	0.01				98.08196321	0.04
VEHICLE	0	69.0683379	95.50879368	95.80656819	118.0317051	0
VEHICLE	0	92.5473539	102.5726708	100.5061095	100.7860275	0
VEHICLE	0	106.322211	101.9185355	103.6873224	83.53595049	0
VEHICLE	0	108.343498			99.99853353	0
VEHICLE	0	107.731803			90.245047	0
VEHICLE	0	115.986797			107.4027364	0

Pioglitazone	6	36.1920467	57.05258285	83.20722651	179.6190113	18
Pioglitazone	6	34.4006775	54.71270505	80.866979	129.0082269	18
Pioglitazone	6	40.4719496	60.27957563	83.74882385	146.2539045	18
Pioglitazone	6	38.2868106			125.7834612	18
Pioglitazone	6	42.2862124			147.4725404	18
Pioglitazone	6	50.9022711			150.2617647	18
Pioglitazone	2	55.6258736	61.00035656	82.28861099	106.0961124	6
Pioglitazone	2	70.3504882	62.60825248	82.28861099	81.96976141	6
Pioglitazone	2	57.545665	65.64650932	71.40050204	81.70579695	6
Pioglitazone	2	58.010405			80.83471426	6
Pioglitazone	2	78.9772305			77.35038348	6
Pioglitazone	2	70.6490861			83.44796234	6
Pioglitazone	0.6	74.6064073	69.23921302	84.54144107	91.98721239	2
Pioglitazone	0.6	76.9093939	77.25685078	77.35709611	77.43837163	2
Pioglitazone	0.6	75.1180247	72.11113579	81.53457465	78.22146618	2
Pioglitazone	0.6	74.8162653			69.77460369	2
Pioglitazone	0.6	83.5620543			90.94015339	2
Pioglitazone	0.6	85.0579871			80.22759602	2
Pioglitazone	0.2	74.2423992	69.7382152	89.56037337	100.3504861	0.6
Pioglitazone	0.2	87.1268049	87.48051502	85.97284037	75.4366412	0.6
Pioglitazone	0.2	105.783122	84.84157194	83.58424468	86.67272807	0.6
Pioglitazone	0.2	116.418177			74.21800531	0.6
Pioglitazone	0.2	99.7625426			76.56728894	0.6
Pioglitazone	0.2				80.66313736	0.6
Pioglitazone	0.06	80.9016006	61.37726843	94.25014732	118.5552346	0.2
Pioglitazone	0.06	102.392035	90.76295249	98.68841304	93.29383643	0.2
Pioglitazone	0.06	78.0323792	97.92651805	89.37625958	88.06734026	0.2
Pioglitazone	0.06	81.6772574			76.30772389	0.2
Pioglitazone	0.06	97.1631385			78.04988928	0.2
Pioglitazone	0.06	115.249296			71.68834597	0.2
Pioglitazone	0.02	86.942566	73.06489642	105.9308735	106.70763	0.06
Pioglitazone	0.02	92.8820364	86.99271378	92.21952355	87.10826942	0.06
Pioglitazone	0.02	83.0877208	96.00779586	91.26183879	80.66313736	0.06
Pioglitazone	0.02	88.4561596			69.33906234	0.06
Pioglitazone	0.02	103.116454			86.84870437	0.06
Pioglitazone	0.02	97.1519097			71.34079277	0.06
Pioglitazone	0.006	88.4665162	90.9404875	91.41665066	118.7268115	0.02
Pioglitazone	0.006	88.4872295	93.59063153	96.95764569	92.24677743	0.02
Pioglitazone	0.006	102.878361	108.915767	96.87022826	106.0125236	0.02
Pioglitazone	0.006	106.568154			78.92097198	0.02
Pioglitazone	0.006				95.29556686	0.02

Pioglitazone	0.006	111.856683			92.77030693	0.02
VEHICLE	0	93.9072142	99.72674386	94.89636355	126.8428373	0
VEHICLE	0	111.333372	96.56822439	103.527511	99.22029755	0
VEHICLE	0	111.3472	103.7050317	101.5761255	116.0787289	0
VEHICLE	0	82.6908715			78.19361908	0
VEHICLE	0	95.2331808			79.19248114	0
VEHICLE	0	105.488161			100.4720361	0
Desipramine	26.7	0	1.052839824	5.326211382	88.70485101	50
Desipramine	26.7	0	1.836132869	6.023098853	59.91486492	50
Desipramine	26.7	0	1.946177196	6.859263257	109.984406	50
Desipramine	26.7	0			49.23504868	50
Desipramine	26.7	0			57.41138787	50
Desipramine	26.7	0			50.40249505	50
Desipramine	10	0	6.646553696	20.96645789	271.2100139	19
Desipramine	10	0	14.43188071	12.84264053	297.5808151	19
Desipramine	10	0	6.536509369	19.13473996		19
Desipramine	10	0			273.9621528	19
Desipramine	10	0			240.1652126	19
Desipramine	10	0			239.4993046	19
Desipramine	3	76.2582596	95.08695357	92.91480978	167.0670544	6
Desipramine	3	72.2950187	102.0642585	97.51446821	134.8548068	6
Desipramine	3	77.5332835	95.87086484	104.5130084	118.6664981	6
Desipramine	3	96.9730312			150.1243309	6
Desipramine	3	73.5953061			145.7874995	6
Desipramine	3	102.015114			119.9182366	6
Desipramine	1	96.0873554	86.51833351	103.0397903	138.1927762	2
Desipramine	1	80.4996061	106.1773197	104.5627861	92.6286509	2
Desipramine	1	89.2175716	101.2444901	110.7950517	103.3084671	2
Desipramine	1	122.802869			105.7318666	2
Desipramine	1	88.9733583			114.9112825	2
Desipramine	1	103.672313			109.984406	2
Desipramine	0.3	90.538132	82.77311704	96.74769087	111.3204366	0.6
Desipramine	0.3	80.4385788	97.31504207	101.4569607	117.7477136	0.6
Desipramine	0.3	83.2229632	96.31104214	103.2187888	124.5880221	0.6
Desipramine	0.3				97.96855903	0.6
Desipramine	0.3	110.628803			91.46120453	0.6
Desipramine	0.3	109.234116			84.36801956	0.6
Desipramine	0.1	91.8880105	88.20794668	90.29670512	128.5961141	0.2
Desipramine	0.1	74.4813978	96.99665539	94.68719675	106.7307287	0.2
Desipramine	0.1	71.2243896	92.16150551	88.74354105	118.7465756	0.2
Desipramine	0.1	89.5516104			89.04201964	0.2

Desipramine	0.1	88.1560913			93.04589708	0.2
Desipramine	0.1	103.78813			113.0737135	0.2
Desipramine	0.03	102.357055	93.66750539	89.7094291	103.6456358	0.06
Desipramine	0.03	97.2137096	93.99763837	98.21135568	88.45618915	0.06
Desipramine	0.03	88.3762887	97.97592626	101.108517	96.05091246	0.06
Desipramine	0.03	84.6239924			109.9043284	0.06
Desipramine	0.03	96.5411616			94.29763561	0.06
Desipramine	0.03	111.250201			106.8150209	0.06
VEHICLE	0	94.373451	97.74643742	91.118104	93.05969038	0
VEHICLE	0	84.8970839	102.5541142	105.9210903	107.5766597	0
VEHICLE	0	96.7849655	99.69944834	102.9608057	98.07234296	0
VEHICLE	0	95.4621967			109.9359929	0
VEHICLE	0	99.0908492			86.57710628	0
VEHICLE	0	129.391454			104.7782078	0
Lobeglitazone	30	6.63496989	49.9387169	50.53636274	100.8707949	3
Lobeglitazone	30	5.98128633	52.53399315	49.26774373	85.17788032	3
Lobeglitazone	30	6.70734394	49.48754447	46.35851642	66.09481989	3
Lobeglitazone	30	6.69289639			87.68234594	3
Lobeglitazone	30	6.40067422			86.05983924	3
Lobeglitazone	30	6.7506866			76.18710926	3
Lobeglitazone	10	69.1975021	75.16712006	66.36049619	73.83149747	1
Lobeglitazone	10	98.2159545	81.19103082	81.12232405	70.36692468	1
Lobeglitazone	10		88.66297052	102.8263894	69.26168503	1
Lobeglitazone	10	79.9689696			66.60836558	1
Lobeglitazone	10	76.3835234			69.18725811	1
Lobeglitazone	10	100.525655			67.63917833	1
Lobeglitazone	3	90.0385041	96.32600312	75.86133239	73.68264364	0.3
Lobeglitazone	3	95.5206684	93.78522629	79.62655191	72.3578446	0.3
Lobeglitazone	3	83.2576957	104.152534	99.15442766	70.95489729	0.3
Lobeglitazone	3	109.172514			70.95489729	0.3
Lobeglitazone	3	90.0522702			74.27061625	0.3
Lobeglitazone	3				64.69187258	0.3
Lobeglitazone	1	92.3303492	90.02890539	88.65276309	80.9764811	0.1
Lobeglitazone	1	125.538592	109.2609924	100.6809384	89.67326585	0.1
Lobeglitazone	1	114.902877	101.4068669	105.8799319	88.49359929	0.1
Lobeglitazone	1	109.07179			80.4629354	0.1
Lobeglitazone	1	121.429899			76.77880322	0.1
Lobeglitazone	1	127.243539			75.30515034	0.1
Lobeglitazone	0.3	100.096044	107.4714798	81.54537071	90.62965168	0.03
Lobeglitazone	0.3	115.72666	106.7885123	76.72774446	74.86231021	0.03
Lobeglitazone	0.3	101.810396	92.44619619	94.46079785	80.90205418	0.03

Lobeglitazone	0.3	141.704993			84.5154808	0.03
Lobeglitazone	0.3	128.690747			70.95489729	0.03
Lobeglitazone	0.3				81.41932123	0.03
Lobeglitazone	0.1	87.6096799	114.533639	75.10849688	92.98898482	0.01
Lobeglitazone	0.1	113.715315		100.7736752	80.68249479	0.01
Lobeglitazone	0.1	135.5119	114.9841216	99.60821294	89.23042572	0.01
Lobeglitazone	0.1	126.437611			70.29249777	0.01
Lobeglitazone	0.1	111.934859			61.0077404	0.01
Lobeglitazone	0.1	135.3801			81.56817505	0.01
Lobeglitazone	0.03	103.00191	107.67637	86.93035881	97.26108961	0.003
Lobeglitazone	0.03	119.822404		99.53579485	74.05105686	0.003
Lobeglitazone	0.03	98.4866417	112.4302373	98.55580621	81.41932123	0.003
Lobeglitazone	0.03	141.798629			85.10345341	0.003
Lobeglitazone	0.03	121.049356			91.29205121	0.003
Lobeglitazone	0.03	130.661066			86.65153319	0.003
VEHICLE	0	101.263662	106.0187998	100.7499237	118.0467324	0
VEHICLE	0	99.347768	98.98227805	96.14025619	79.80649872	0
VEHICLE	0	85.5968733	94.99892218	103.1098201	86.38554217	0
VEHICLE	0	111.653316			82.55567725	0
VEHICLE	0	90.8125617			111.1098941	0
VEHICLE	0	111.325819			122.0956553	0
Benztropine	30	0	36.38257984	24.7122834	167.1339905	18
Benztropine	30	0	40.39206464	24.1148922	152.7455276	18
Benztropine	30	2.20145228	38.41345117	24.09477802	158.0978459	18
Benztropine	30	0			157.1558963	18
Benztropine	30	4.07562358			162.7966411	18
Benztropine	30	0.32673913			126.6520628	18
Benztropine	10	63.6309007	87.25169348	83.4255792	139.3026652	6
Benztropine	10	65.7008988	91.28665399	73.03107306	121.1573567	6
Benztropine	10	72.1875645	90.82155898	92.16770534	114.7937203	6
Benztropine	10	63.8307372			83.13253012	6
Benztropine	10	74.7786112			88.76962395	6
Benztropine	10	72.2867242			102.9390288	6
Benztropine	3	83.7789466	101.2848903	110.7064436	89.42314713	2
Benztropine	3	65.5579572	89.46350768	96.34944368	86.60094925	2
Benztropine	3	75.1877124	119.6509175	83.6247096	74.53085068	2
Benztropine	3	71.1702842			80.09492516	2
Benztropine	3	86.0735981			68.74771815	2
Benztropine	3				93.1799927	2
Benztropine	1	99.6793838	105.0873033	102.432475	102.5045637	0.6
Benztropine	1	89.6470296	105.7470589	105.9574853	90.79591092	0.6

Benztropine	1	90.8944904	97.06833369	93.02356376	84.43227455	0.6
Benztropine	1	98.6586356			91.1573567	0.6
Benztropine	1	92.0076792			76.91493246	0.6
Benztropine	1	106.307582			112.698065	0.6
Benztropine	0.3	105.659198	101.5043733	94.58693852	80.60240964	0.2
Benztropine	0.3	94.4340017	110.9983212	110.0396585	97.15589631	0.2
Benztropine	0.3	80.3988493	106.2382828	100.8992715	76.33807959	0.2
Benztropine	0.3	90.6081737			73.58890106	0.2
Benztropine	0.3	100.987316			92.45710113	0.2
Benztropine	0.3	112.712645			81.39832055	0.2
Benztropine	0.1	103.049186	106.3545566	103.0001978	100.6973348	0.06
Benztropine	0.1	90.7307415	99.18934985	102.1141681	76.41109894	0.06
Benztropine	0.1	95.9546662	102.7722798	101.0586764	76.04965316	0.06
Benztropine	0.1	83.9425871			80.67542899	0.06
Benztropine	0.1	92.3125273			76.11902154	0.06
Benztropine	0.1	104.567683			86.8200073	0.06
Benztropine	0.03	99.6491483	95.65867775	95.99090839	99.39759036	0.02
Benztropine	0.03	77.1343841	86.43647076	96.1301991	95.63709383	0.02
Benztropine	0.03	101.064042	101.5305023	97.71318518	75.32676159	0.02
Benztropine	0.03	99.017561			77.78386272	0.02
Benztropine	0.03	94.2209439			75.61518802	0.02
Benztropine	0.03	123.646647			107.637824	0.02