

US EPA ARCHIVE DOCUMENT

# Appendix 3

**Preliminary Cumulative  
Hazard and Dose-Response Assessment for  
Organophosphorus Pesticides:**

**Determination of Relative Potency  
and points of Departure  
for Cholinesterase Inhibition**

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**Abbreviations:**

<b>B/A</b>	Ratio of estimate of B/estimate of A
<b>F</b>	Female
<b>M</b>	Male
<b>Max.</b>	Maximum value
<b>Min.</b>	Minimum value
<b>N</b>	Sample size
<b>NA</b>	Not available
<b>1st Qu.</b>	First quartile
<b>3rd Qu.</b>	Third quartile

**Section 1. Distribution of B/A By chemical, sex, and compartment**

BRAIN

F

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
26.0000	0.0000	0.1911	0.2383	0.2375	0.3114	0.4573

-----B/A -----

PLASMA

F

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.0000	0.0000	0.2764	0.3653	0.3322	0.4120	0.5091

-----B/A -----

RBC

F

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
15.00000	0.00000	0.00000	0.00000	0.09528	0.00000	0.55110

-----B/A -----

BRAIN

M

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
26.0000	0.0000	0.2077	0.2625	0.2707	0.3262	0.5196

-----B/A -----

PLASMA

M

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.0000	0.0000	0.0000	0.0000	0.1386	0.4044	0.4343

-----B/A -----

RBC

M

ACEPHATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
15.0000	0.0000	0.0000	0.0000	0.1290	0.2113	0.5648

-----B/A -----

BRAIN

F

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
3	0	0	0	0	0	0

-----B/A-----

PLASMA

F

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.00000	0.02093	0.10540	0.22150	0.34110

-----B/A-----

RBC

F

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.000000	0.000000	0.000000	0.000000	0.002123	0.000000	0.016990

-----B/A-----

BRAIN

M

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
3	0	0	0	0	0	0

-----B/A-----

PLASMA

M

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.00000	0.00000	0.03759	0.01779	0.22950

-----B/A-----

RBC

M

AZINPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.000000	0.000000	0.000000	0.000000	0.005163	0.000000	0.041300

-----B/A-----

BRAIN

F

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.01462	0.00000	0.07308

-----B/A-----

PLASMA

F

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.07086	0.09000	0.10020	0.09821	0.11390	0.11610

-----B/A-----

RBC

F

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.1260	0.1440	0.2597	0.3343

-----B/A-----

BRAIN

M

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.0000	0.2193	0.5235	0.5729

-----B/A-----

PLASMA

M

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.2462	0.3237	0.3381	0.3372	0.3645	0.4135

-----B/A-----

RBC

M

BENSULIDE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.3338	0.4007	0.3217	0.4023	0.4716

-----B/A-----

BRAIN

F

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5	0	0	0	0	0	0

-----B/A-----

PLASMA

F

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13.00000	0.00000	0.02022	0.04451	0.07794	0.15020	0.19140

-----B/A-----

RBC

F

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.0000	0.0000	0.0000	0.0000	0.1514	0.0000	0.8821

-----B/A-----

BRAIN

M

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.07511	0.00000	0.37550

-----B/A-----

PLASMA

M

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13.00000	0.00000	0.00000	0.05225	0.09890	0.14910	0.40490

-----B/A-----

RBC

M

CHLORPYRIFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
9	0	0	0	0	0	1	

-----B/A-----



BRAIN

F

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.05049	0.04618	0.07841	0.10660
-----B/A-----						

PLASMA

F

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.000000	0.000000	0.000000	0.000000	0.005322	0.000000	0.063870
-----B/A-----						

RBC

F

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.00000	0.06518	0.14540	0.21740
-----B/A-----						

BRAIN

M

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.00000	0.04231	0.00000	0.30850
-----B/A-----						

PLASMA

M

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.00000	0.01463	0.00000	0.17550
-----B/A-----						

RBC

M

DIAZINON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.0000	0.0000	0.0000	0.0000	0.0780	0.1575	0.3125
-----B/A-----						

BRAIN

F

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7	0	0	0	0	0	0

-----B/A-----

PLASMA

F

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
11.0000	0.0000	0.0000	0.0000	0.1003	0.1701	0.3907

-----B/A-----

RBC

F

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.0000	0.0000	0.1768	0.2992	0.6395

-----B/A-----

BRAIN

M

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.0000	0.0000	0.1943	0.3305	0.6993

-----B/A-----

PLASMA

M

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.08598	0.00000	0.49600

-----B/A-----

RBC

M

DICHLORVOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6	0	0	0	0	0	0

-----B/A-----

BRAIN

F

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.00000	0.00000	0.05233	0.00000	0.36630

-----B/A-----

PLASMA

F

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9	0	0	0	0	0	0

-----B/A-----

RBC

F

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.0000	0.0000	0.0000	0.0000	0.1317	0.3582	0.4359

-----B/A-----

BRAIN

M

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7	0	0	0	0	0	0

-----B/A-----

PLASMA

M

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.0000	0.0000	0.0000	0.0000	0.1825	0.3529	0.6339

-----B/A-----

RBC

M

DIMETHOATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.0000	0.0000	0.0000	0.0000	0.0696	0.0000	0.4823

-----B/A-----

BRAIN

F

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.03458	0.00000	0.17290

-----B/A-----

PLASMA

F

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.03477	0.11400	0.05014	0.89010

-----B/A-----

RBC

F

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.000000	0.000000	0.000000	0.000000	0.001044	0.000000	0.010440

-----B/A-----

BRAIN

M

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.03964	0.00000	0.19820

-----B/A-----

PLASMA

M

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.04012	0.08504	0.14540

-----B/A-----

RBC

M

DISULFOTON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.05209	0.03428	0.27990

-----B/A-----

BRAIN

F

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2	0	0	0	0	0	0

-----B/A-----

PLASMA

F

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.00000	0.00000	0.05817	0.10460	0.08559	0.11150	0.12820

-----B/A-----

RBC

F

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.0000	0.0000	0.0000	0.1443	0.1056	0.1813	0.2460

-----B/A-----

BRAIN

M

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2	0	0	0	0	0	0

-----B/A-----

PLASMA

M

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.0000	0.0000	0.2281	0.2513	0.2453	0.3007	0.4154

-----B/A-----

RBC

M

FENAMIPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8	0	0	0	0	0	0

-----B/A-----

BRAIN

F

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13.00000	0.00000	0.00000	0.00000	0.01054	0.00000	0.13710
-----B/A-----						

PLASMA

F

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.00000	0.02637	0.01688	0.13890
-----B/A-----						

RBC

F

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.00000	0.07369	0.14830	0.10920	0.64320
-----B/A-----						

BRAIN

M

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13.00000	0.00000	0.00000	0.00000	0.03155	0.00000	0.17690
-----B/A-----						

PLASMA

M

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.0000	0.0000	0.0000	0.2728	0.2237	0.4098	0.4524
-----B/A-----						

RBC

M

FOSTHIAZATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.04956	0.11050	0.17020
-----B/A-----						

BRAIN

F

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
22.0000	0.0000	0.0000	0.0000	0.1779	0.4512	0.7186

-----B/A-----

PLASMA

F

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.000000	0.000000	0.000000	0.000000	0.006818	0.000000	0.047730

-----B/A-----

RBC

F

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.3244	0.3517	0.3456	0.4541	0.5105

-----B/A-----

BRAIN

M

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
22.00000	0.00000	0.00000	0.00000	0.03596	0.00000	0.61590	1.00000

-----B/A-----

PLASMA

M

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.00000	0.00000	0.09139	0.13130	0.37710

-----B/A-----

RBC

M

MALATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.3413	0.3683	0.3299	0.4014	0.4555

-----B/A-----

BRAIN

F

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.07476	0.14330	0.23050

-----B/A-----

PLASMA

F

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.04144	0.08495	0.12070	0.10200	0.55100

-----B/A-----

RBC

F

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.01119	0.07544	0.15570	0.28550

-----B/A-----

BRAIN

M

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.07125	0.15060	0.20570

-----B/A-----

PLASMA

M

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.02206	0.10730	0.16800	0.19490	0.75400

-----B/A-----

RBC

M

METHAMIDOPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.01615	0.08341	0.18880	0.23570

-----B/A-----



BRAIN

F

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
19.00000	0.00000	0.00000	0.06607	0.11580	0.21130	0.37540
-----B/A-----						

PLASMA

F

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.0000	0.4047	0.4350	0.4627	0.4754	0.5062	0.5761
-----B/A-----						

RBC

F

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.00000	0.00000	0.03603	0.08196	0.12360
-----B/A-----						

BRAIN

M

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
19.00000	0.00000	0.00000	0.00000	0.04184	0.02091	0.32960
-----B/A-----						

PLASMA

M

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.00000	0.00000	0.08571	0.37420	0.34540	0.58620	0.67770
-----B/A-----						

RBC

M

METHIDATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.03675	0.08946	0.21430	0.29490	0.74710
-----B/A-----						

BRAIN

F

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.00000	0.00000	0.02433	0.00000	0.19460

-----B/A-----

PLASMA

F

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
11.00000	0.00000	0.01068	0.18900	0.16260	0.24850	0.37140

-----B/A-----

RBC

F

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.0000	0.0000	0.0000	0.0000	0.1185	0.2666	0.4437

-----B/A-----

BRAIN

M

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
8	0	0	0	0	0	1	

-----B/A-----

PLASMA

M

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.0000	0.0000	0.0000	0.3009	0.2490	0.3940	0.7007

-----B/A-----

RBC

M

METHYLPARATHION

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.0000	0.0000	0.0000	0.0000	0.1331	0.2597	0.5161

-----B/A-----

BRAIN

F

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
19	0	0	0	0	0	0

-----B/A-----

PLASMA

F

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.06943	0.13170	0.23600	0.48280	0.49600

-----B/A-----

RBC

F

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.0000	0.1778	0.4061	0.4830

-----B/A-----

BRAIN

M

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
19	0	0	0	0	0	0

-----B/A-----

PLASMA

M

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.3871	0.3044	0.4983	0.6367

-----B/A-----

RBC

M

MEVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.09085	0.09931	0.35500

-----B/A-----

BRAIN  
F  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2.0000	0.2663	0.2873	0.3083	0.3083	0.3294	0.3504

-----B/A-----

PLASMA  
F  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.2637	0.2024	0.3735	0.3747

-----B/A-----

RBC  
F  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5	0	0	0	0	0	0

-----B/A-----

BRAIN  
M  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2.0000	0.2556	0.2728	0.2900	0.2900	0.3072	0.3245

-----B/A-----

PLASMA  
M  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.3715	0.3985	0.3213	0.4047	0.4317

-----B/A-----

RBC  
M  
NALED

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.0000	0.2048	0.4577	0.5663

-----B/A-----

BRAIN

F

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.0000	0.0000	0.2004	0.2174	0.1842	0.2214	0.2219

-----B/A-----

PLASMA

F

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
12.00000	0.00000	0.03874	0.07858	0.10700	0.16510	0.25190

-----B/A-----

RBC

F

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9.00000	0.00000	0.00000	0.00000	0.03831	0.00000	0.19860

-----B/A-----

BRAIN

M

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.0000	0.0000	0.1582	0.2197	0.1814	0.2256	0.2265

-----B/A-----

PLASMA

M

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
15.00000	0.00000	0.09317	0.24330	0.24440	0.38260	0.57550

-----B/A-----

RBC

M

OXYDEMETHONMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
15.0000	0.0000	0.0000	0.0000	0.1409	0.2021	0.5022

-----B/A-----

BRAIN

F

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
4	0	0	0	0	0	0

-----B/A-----

PLASMA

F

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8	0	0	0	0	0	0

-----B/A-----

RBC

F

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5	0	0	0	0	0	0

-----B/A-----

BRAIN

M

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
3	0	0	0	0	0	0

-----B/A-----

PLASMA

M

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.0000	0.2489	0.1883	0.3164	0.4364

-----B/A-----

RBC

M

PHORATE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5	0	0	0	0	0	0

-----B/A-----

BRAIN

F

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
4	0	0	0	0	0	0

-----B/A-----

PLASMA

F

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.0000	0.1023	0.1108	0.2335	0.2249	0.3183	0.3586

-----B/A-----

RBC

F

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.00000	0.00000	0.02718	0.00000	0.21740

-----B/A-----

BRAIN

M

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
4.00000	0.00000	0.00000	0.00000	0.05836	0.05836	0.23340

-----B/A-----

PLASMA

M

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
8.00000	0.00000	0.09154	0.17160	0.19530	0.33550	0.40390

-----B/A-----

RBC

M

PHOSALONE

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.0000	0.0000	0.1701	0.1970	0.7963

-----B/A-----

BRAIN

F

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.09194	0.11940	0.47470
-----B/A-----						

PLASMA

F

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.2032	0.2694	0.3139	0.4858	0.5497
-----B/A-----						

RBC

F

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.00000	0.00000	0.03476	0.03536	0.17260
-----B/A-----						

BRAIN

M

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10.00000	0.00000	0.00000	0.00000	0.05272	0.00000	0.52720
-----B/A-----						

PLASMA

M

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.0000	0.0000	0.0000	0.3141	0.2463	0.4619	0.4860
-----B/A-----						

RBC

M

PHOSMET

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.00000	0.00000	0.06418	0.10380	0.24160
-----B/A-----						



BRAIN

F

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
11.0000	0.0000	0.0000	0.0000	0.1837	0.3743	0.6538

-----B/A-----

PLASMA

F

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
16.0000	0.0000	0.1055	0.1423	0.1326	0.1664	0.2621

-----B/A-----

RBC

F

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
16.0000	0.0000	0.0000	0.2938	0.2598	0.5006	0.5526

-----B/A-----

BRAIN

M

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
11	0	0	0	0	0	0

-----B/A-----

PLASMA

M

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
16.0000	0.0000	0.1027	0.2840	0.2509	0.3989	0.4935

-----B/A-----

RBC

M

PIRIMIPHOSMETHYL

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
16.0000	0.0000	0.0000	0.0000	0.2237	0.5036	0.8168	2.0000

-----B/A-----

BRAIN

F

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6	0	0	0	0	0	0

-----B/A-----

PLASMA

F

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
16.00000	0.00000	0.00000	0.00000	0.01547	0.00000	0.24750

-----B/A-----

RBC

F

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
17.00000	0.00000	0.00000	0.00000	0.04126	0.00000	0.34470	1.00000

-----B/A-----

BRAIN

M

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6	0	0	0	0	0	0

-----B/A-----

PLASMA

M

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
16.00000	0.00000	0.00000	0.00000	0.05532	0.00000	0.55740

-----B/A-----

RBC

M

TERBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
17.00000	0.00000	0.00000	0.00000	0.1127	0.3070	0.5231

-----B/A-----

BRAIN

F

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
4.0000	0.0000	0.0000	0.3251	0.3647	0.6898	0.8086

-----B/A-----

PLASMA

F

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.00000	0.00000	0.04081	0.19600	0.18000	0.29950	0.36500

-----B/A-----

RBC

F

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.00000	0.00000	0.00000	0.04244	0.26040	0.52970	0.79970

-----B/A-----

BRAIN

M

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
1	0	0	0	0	0	0

-----B/A-----

PLASMA

M

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.09651	0.00000	0.48260

-----B/A-----

RBC

M

TETRACHLORVINPHOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2	0	0	0	0	0	0

-----B/A-----

BRAIN

F

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2	0	0	0	0	0	0

-----B/A-----

PLASMA

F

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.0000	0.0000	0.1615	0.1735	0.1500	0.1845	0.2073

-----B/A-----

RBC

F

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.0000	0.0000	0.0000	0.0000	0.1329	0.2699	0.4375

-----B/A-----

BRAIN

M

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
2	0	0	0	0	0	0

-----B/A-----

PLASMA

M

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.0000	0.2134	0.3218	0.3654	0.3712	0.4611	0.4826

-----B/A-----

RBC

M

TRIBUFOS

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.00000	0.00000	0.07752	0.33220	0.25240	0.40350	0.42990

-----B/A-----

BRAIN

F

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
1	0	0	0	0	0	0

-----B/A-----

PLASMA

F

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.00000	0.00000	0.00000	0.00000	0.09231	0.07259	0.50100

-----B/A-----

RBC

F

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7.000000	0.000000	0.000000	0.000000	0.007436	0.000000	0.052050

-----B/A-----

BRAIN

M

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
1	0	0	0	0	0	0

-----B/A-----

PLASMA

M

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.0000	0.0000	0.0000	0.0000	0.2587	0.5218	0.7716

-----B/A-----

RBC

M

TRICHLORFON

N	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
5.00000	0.00000	0.00000	0.00000	0.01213	0.00000	0.06064

-----B/A-----

Figure 1. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for brain cholinesterase measured in female Rats for the OPs.

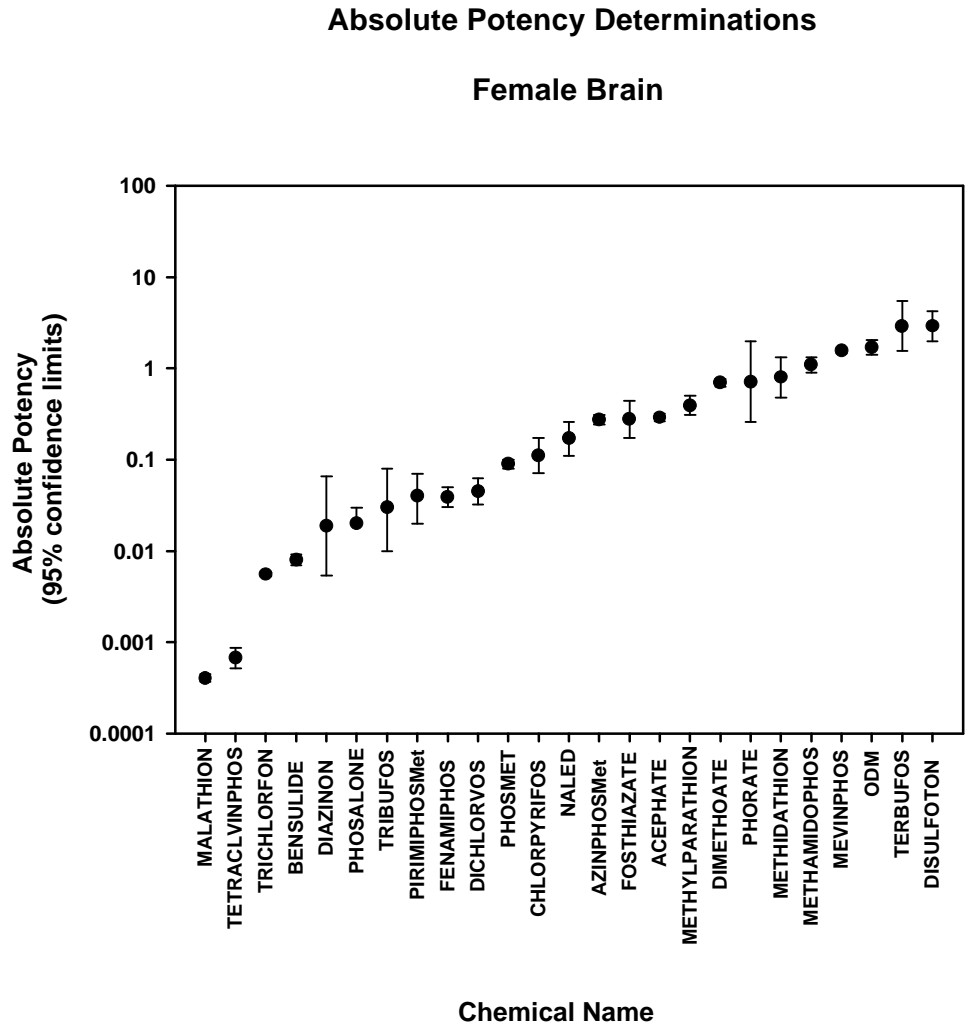


Figure 2. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for plasma cholinesterase measured in female Rats for the OPs.

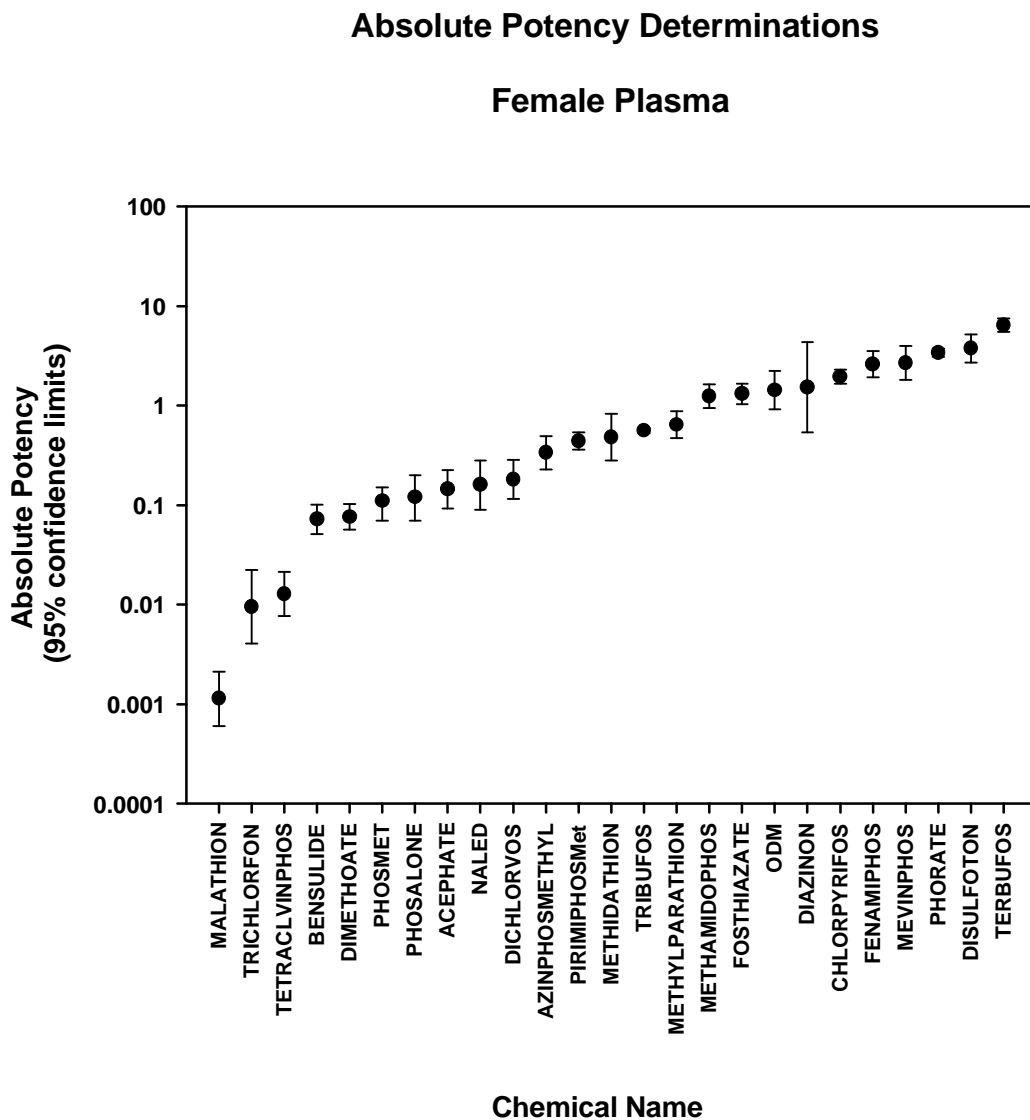


Figure 3. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for RBC cholinesterase measured in female Rats for the OPs.

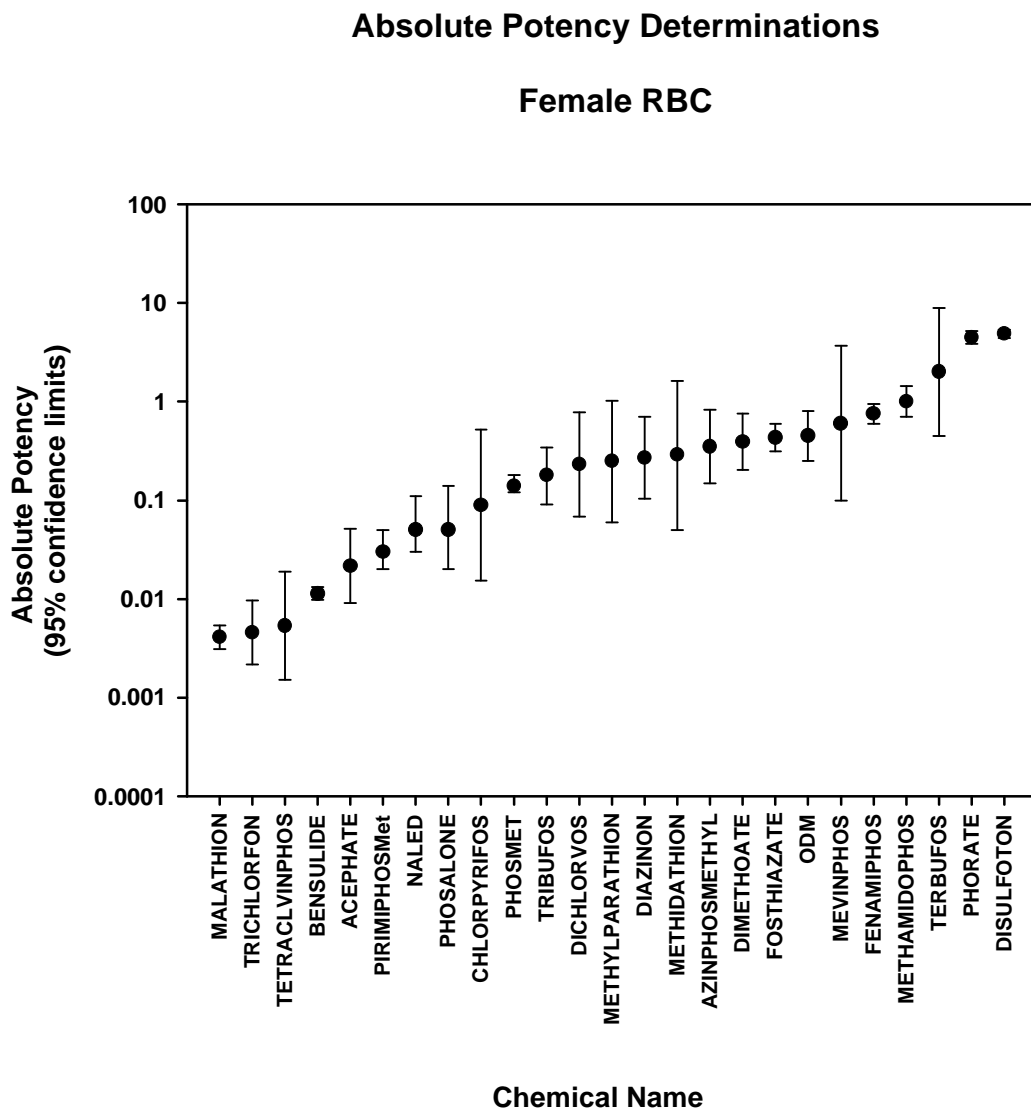




Figure 4. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for brain cholinesterase measured in male Rats for the OPs.

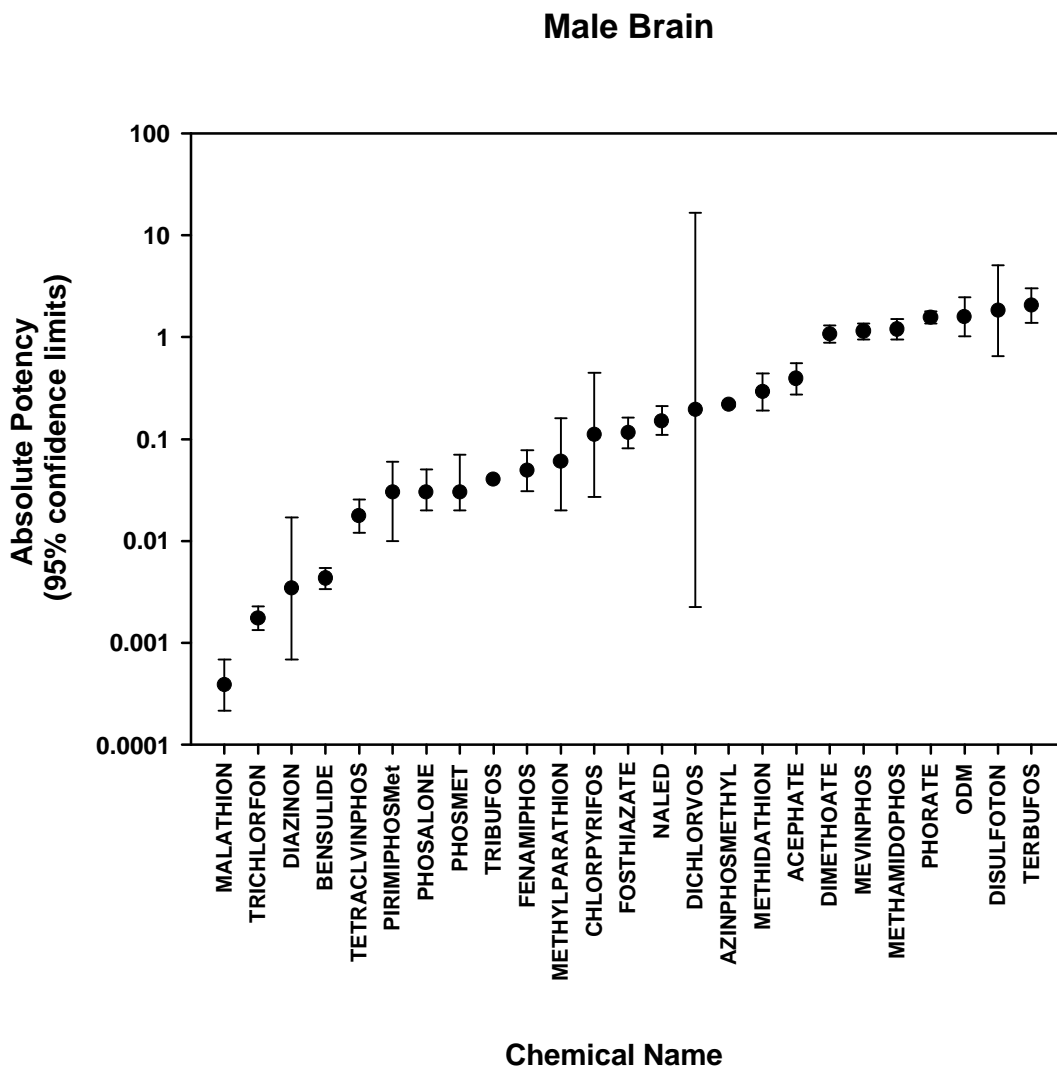


Figure 5. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for plasma cholinesterase measured in male Rats for the OPs.

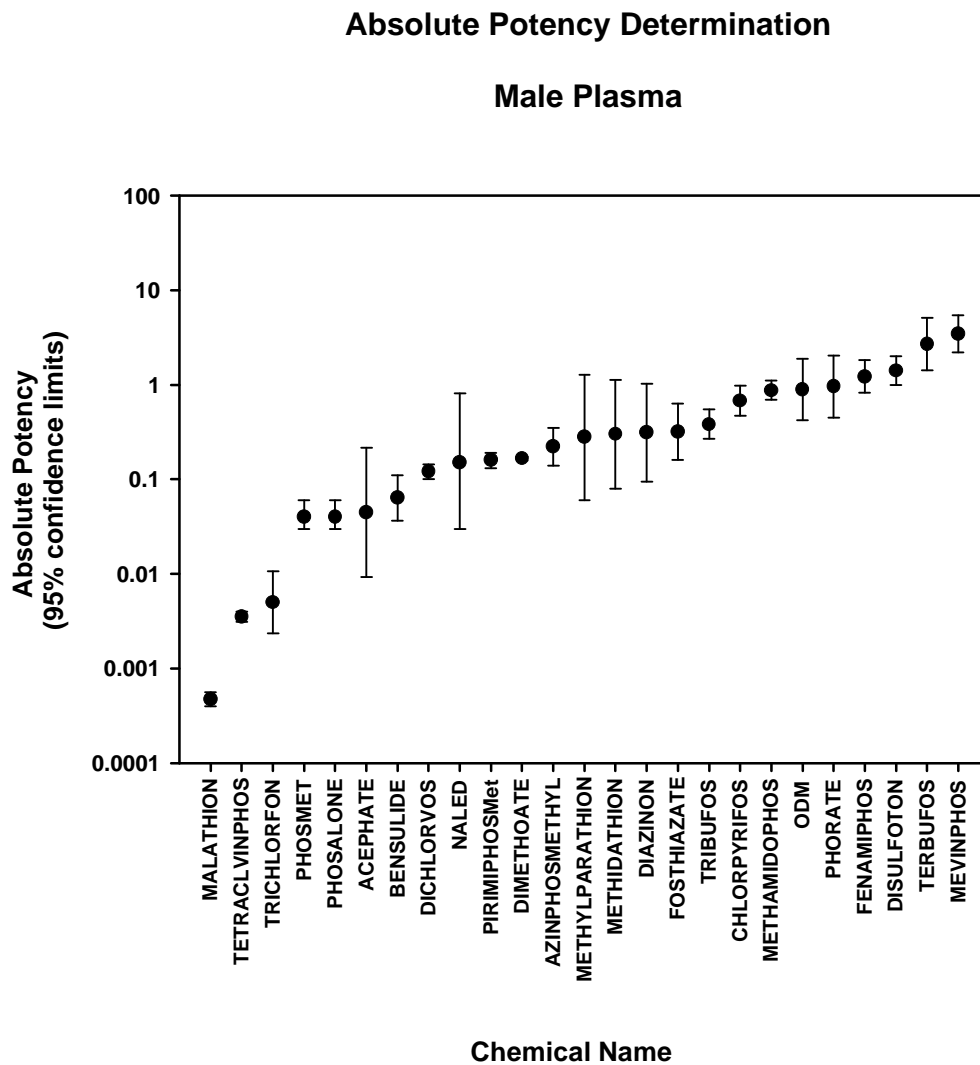


Figure 6. Graph of absolute potency determinations ( $\pm$  95% confidence limits) for RBC cholinesterase measured in male Rats for the OPs.

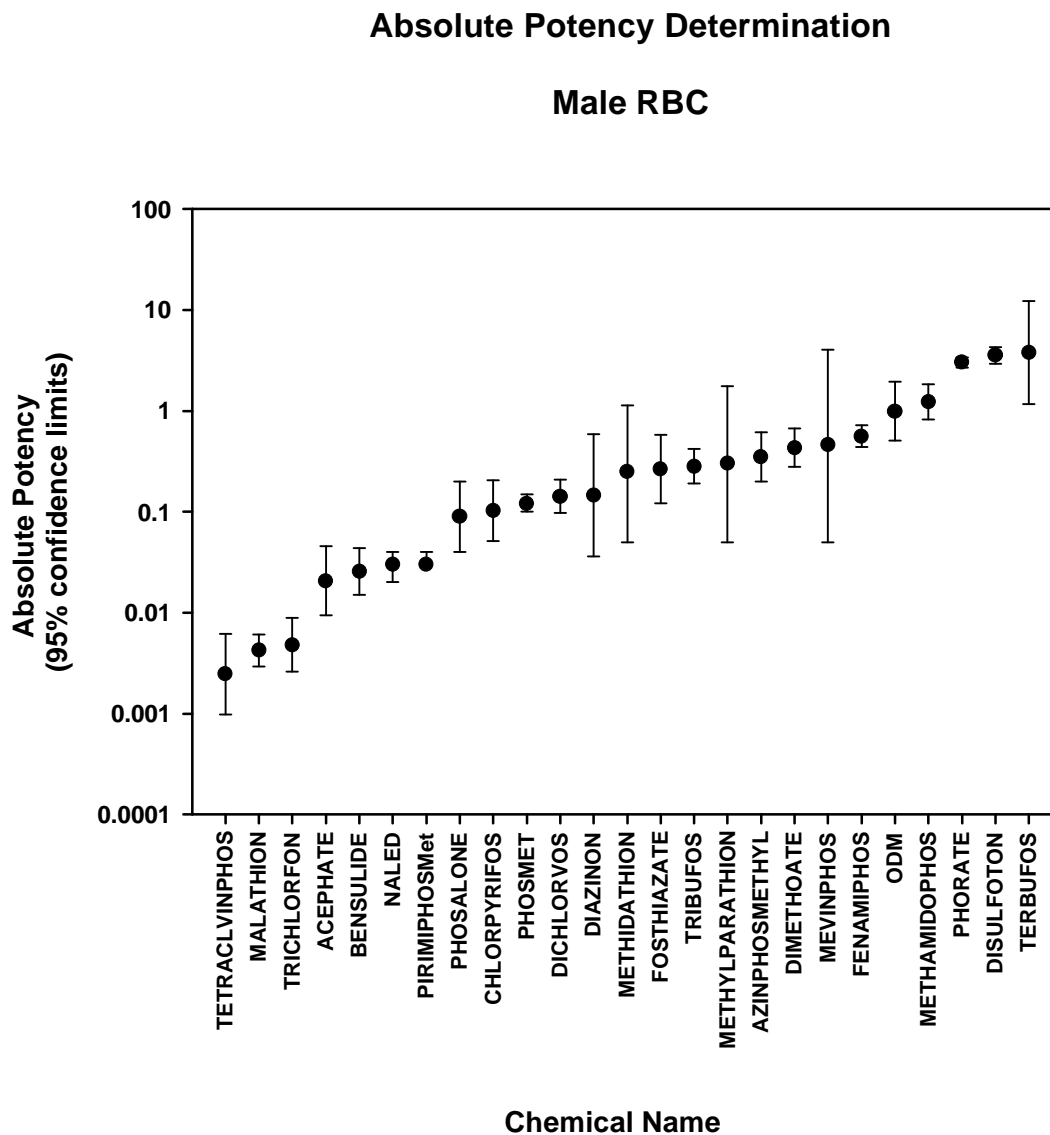


Figure 7. Comparison of absolute potency determinations ( $\pm$  95% confidence limits) for brain cholinesterase measured in male and female Rats for the OPs.

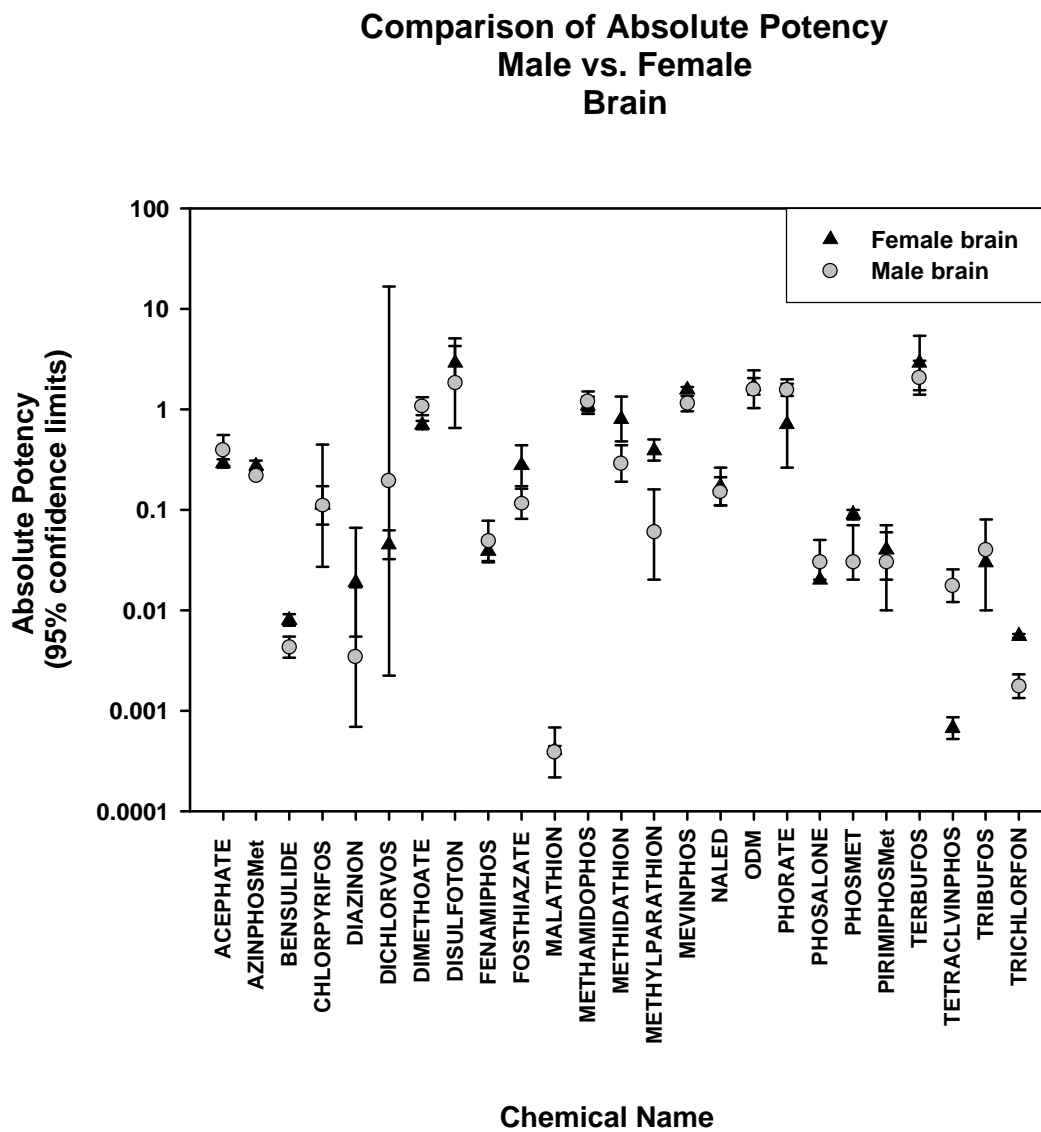


Figure 8. Comparison of absolute potency determinations ( $\pm$  95% confidence limits) for plasma cholinesterase measured in male and female Rats for the OPs.

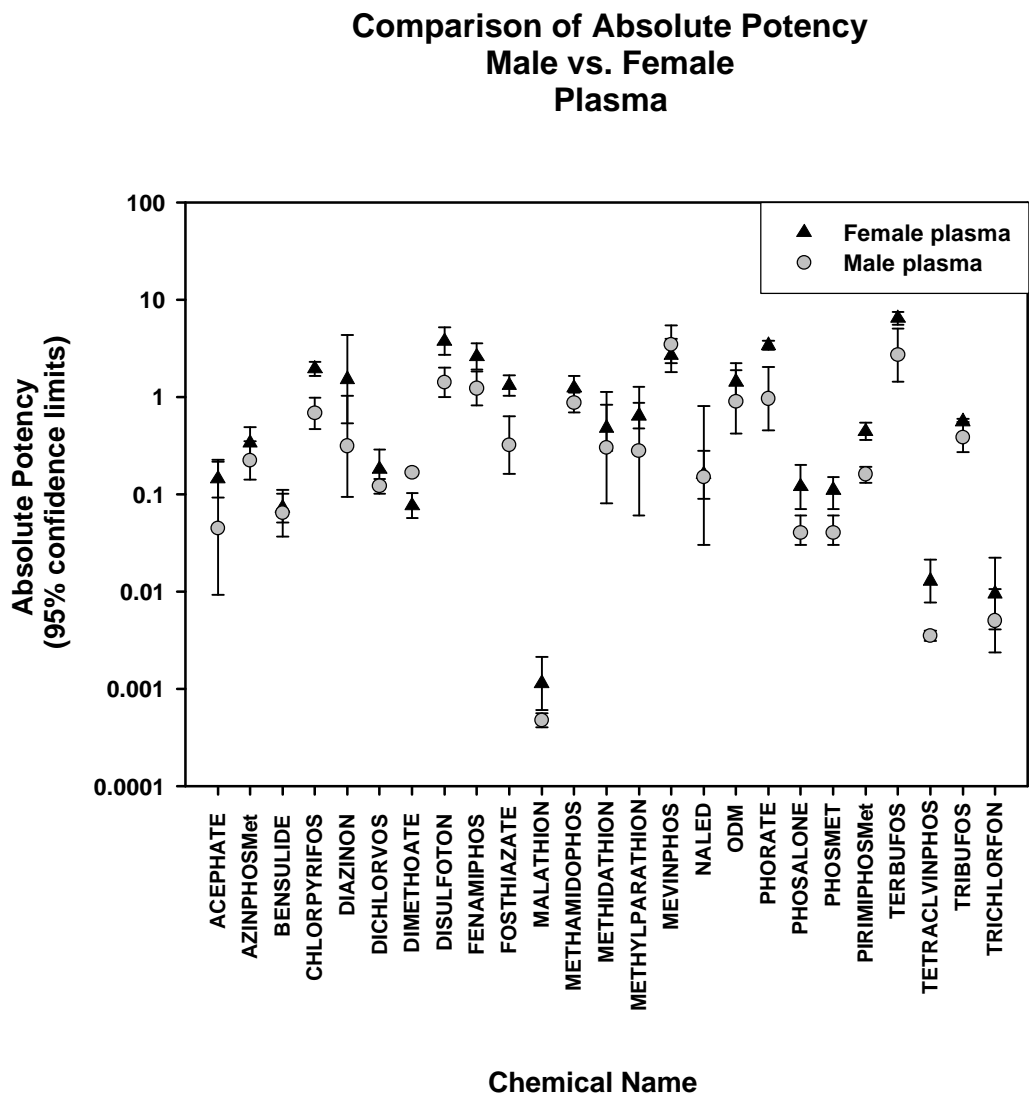


Figure 9. Comparison of absolute potency determinations ( $\pm$  95% confidence limits) for RBC cholinesterase measured in male and female Rats for the OPs.

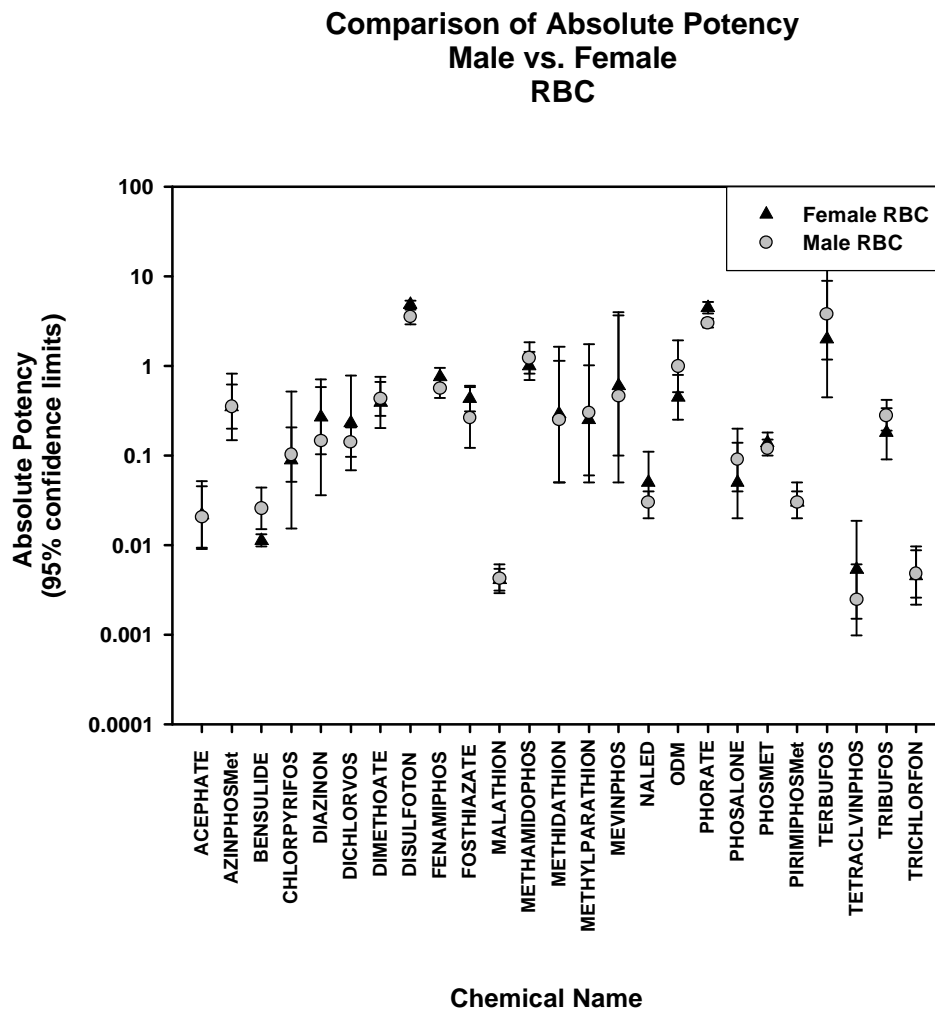


Figure 10. Graph of the ratio of RBC/brain absolute potency determinations for cholinesterase measured in male and female Rats for the OPs.

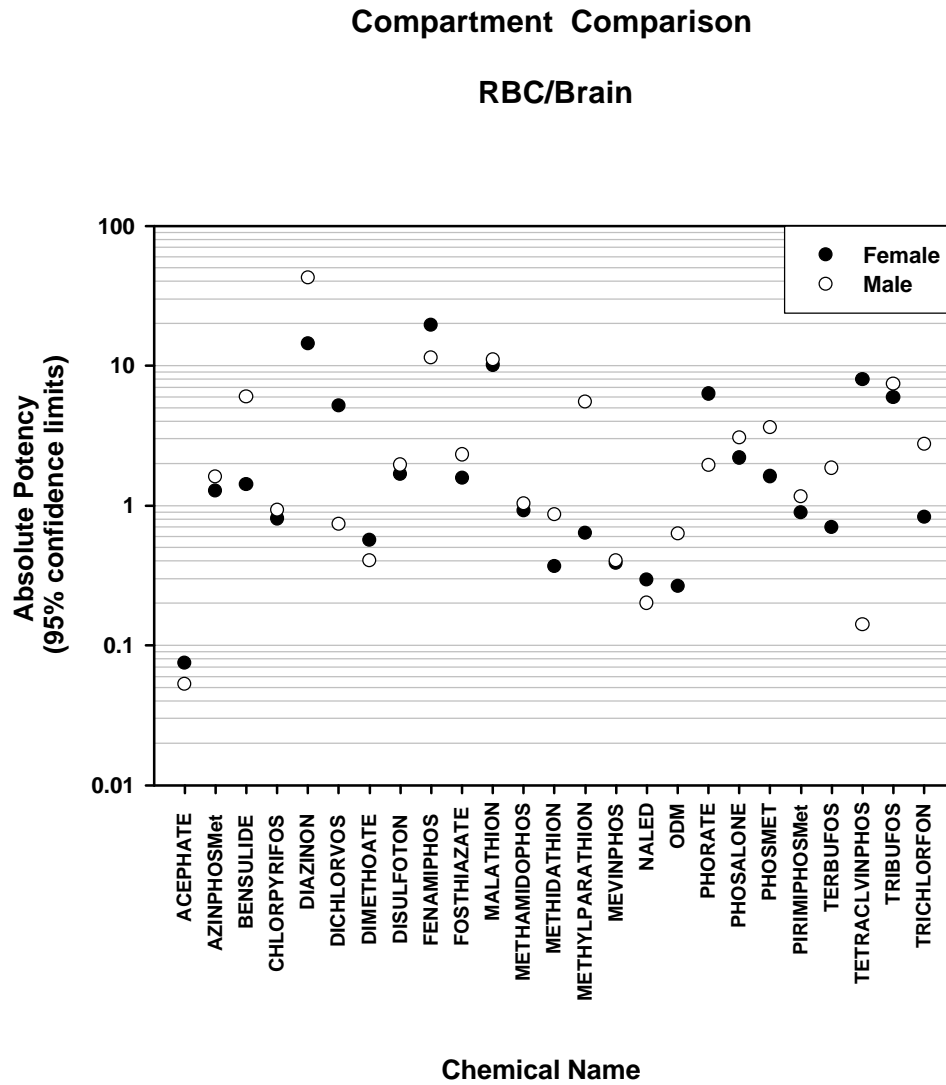


Figure 11. Graph of the ratio of plasma/brain absolute potency determinations for cholinesterase measured in male and female Rats for the OPs.

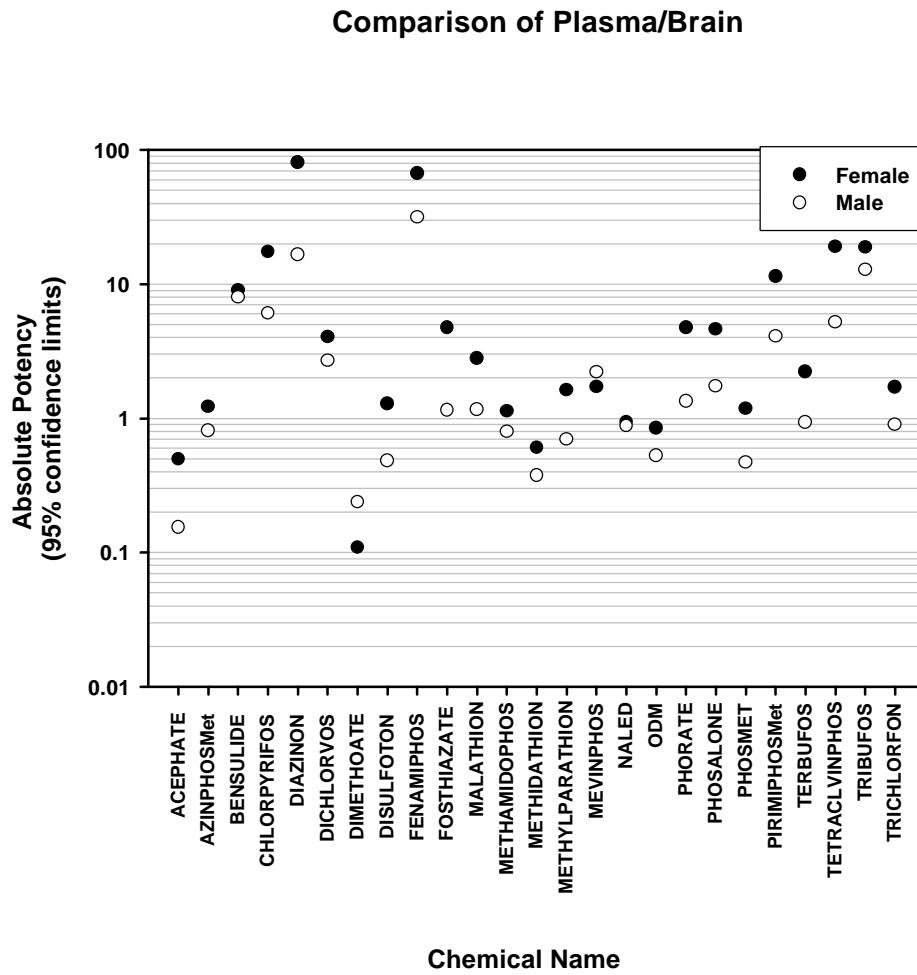




Figure 12. Graph of the ratio of plasma/RBC absolute potency determinations for cholinesterase measured in male and female Rats for the OPs.

