

SUPPLEMENTARY TABLE S3. PERCENT MORPHOLOGICAL ABNORMALITIES PER COMPOUND CONCENTRATIONS USED IN ZEBRAFISH LARVAE ASSAY

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM									
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder		
1 Aconitine	0	47	0.0 \pm 0	8.5 \pm 2	17.0 \pm 4	4.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	21.1 \pm 4	
	50	28	10.7 \pm 2	7.1 \pm 2	17.9 \pm 3	0.0 \pm 0	7.1 \pm 2	3.6 \pm 1	0.0 \pm 0	0.0 \pm 0	35.7 \pm 9	
2 Atropine	0	44	2.3 \pm 1	4.5 \pm 1	4.5 \pm 1	2.3 \pm 0	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	31.8 \pm 3	
	100	47	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	19.2 \pm 2	
3 Berberine chloride	200	45	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	37.8 \pm 2	
	400	42	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	40.5 \pm 1	
4 Colchicine	800	8	100.0 \pm 0 ^a	62.5 \pm 19 ^a	87.5 \pm 6 ^a	0.0 \pm 0	37.5 \pm 19 ^a	75.0 \pm 13 ^a	0.0 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a	
	0	45	4.4 \pm 1	20.0 \pm 4	28.9 \pm 7	0.0 \pm 0	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.2 \pm 1	
5 Coniine	50	44	2.3 \pm 1	31.8 \pm 6	27.3 \pm 7	0.0 \pm 0	2.3 \pm 1	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	22.7 \pm 4 ^b	
	100	43	14.0 \pm 3	51.2 \pm 3 ^c	34.9 \pm 8	0.0 \pm 0	4.7 \pm 1	2.3 \pm 1	2.2 \pm 1	2.2 \pm 1	37.2 \pm 4 ^{ah}	
6 α -Lobeline hydrochloride	200	16	43.8 \pm 0 ^a	81.3 \pm 1 ^a	56.3 \pm 5	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	68.8 \pm 5 ^a	
	0	39	0.0 \pm 0	0.0 \pm 0	5.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	38.5 \pm 9	
7 Morphine hydrochloride	10	39	0.0 \pm 0	5.1 \pm 1	5.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	33.3 \pm 7	
	20	47	0.0 \pm 0	4.3 \pm 1	14.9 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.4 \pm 5	
8 Nicotine	40	25	8.0 \pm 2 ^b	36.0 \pm 3 ^a	84.0 \pm 3 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	36.0 \pm 10	
	0	45	0.0 \pm 0	0.0 \pm 0	3.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	22.6 \pm 1	
9 Quinine sulfate	10	31	0.0 \pm 0	3.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	9.7 \pm 2	
	20	32	0.0 \pm 0	6.3 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	21.9 \pm 5	
10 α -Lobeline hydrochloride	40	28	0.0 \pm 0	25.0 \pm 1 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	10.7 \pm 1	
	0	31	3.2 \pm 1	3.2 \pm 1	6.5 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	35.5 \pm 8	
11 Morphine hydrochloride	10	30	16.7 \pm 4	0.0 \pm 0	10.0 \pm 1	0.0 \pm 0	6.7 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	20.0 \pm 6	
	20	28	71.4 \pm 2 ^a	0.0 \pm 0	53.6 \pm 3 ^a	0.0 \pm 0	28.6 \pm 6 ^a	3.6 \pm 1	0.0 \pm 0	0.0 \pm 0	57.1 \pm 10	
12 Nicotine	40	5	100.0 \pm 0 ^a	60.0 \pm 0 ^a	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.0 \pm 0	
	0	45	0.0 \pm 0	25.0 \pm 0	16.7 \pm 0	0.0 \pm 0	8.3 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
13 Quinine sulfate	1000	45	0.0 \pm 0	53.3 \pm 0	40.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
	2000	41	0.0 \pm 0	54.5 \pm 0	18.2 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
14 Nicotine	4000	39	0.0 \pm 0	86.7 \pm 0 ^b	80.0 \pm 0 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
	8000	36	0.0 \pm 0	90.0 \pm 0 ^c	60.0 \pm 0 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
15 Quinine sulfate	0	47	2.1 \pm 1	10.6 \pm 0	8.5 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.4 \pm 3	
	10	26	7.7 \pm 5	53.8 \pm 10 ^a	38.5 \pm 3 ^c	0.0 \pm 0	11.8 \pm 4 ^b	3.8 \pm 2	0.0 \pm 0	0.0 \pm 0	50.0 \pm 9	
16 Quinine sulfate	20	16	12.5 \pm 0	56.3 \pm 0 ^a	81.3 \pm 0 ^a	37.5 \pm 0 ^a	93.8 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	81.3 \pm 0 ^c	
	0	46	0.0 \pm 0	13.0 \pm 3	19.6 \pm 5	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.3 \pm 2	
17 Quinine sulfate	30	43	2.3 \pm 1	9.3 \pm 2	14.0 \pm 4	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	18.6 \pm 1	
	60	47	0.0 \pm 0	2.1 \pm 1	21.3 \pm 4	10.6 \pm 3	4.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.4 \pm 0	
18 Quinine sulfate	120	44	2.3 \pm 1	2.3 \pm 1	6.8 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	20.5 \pm 1	
	240	45	2.2 \pm 1	2.2 \pm 1	22.2 \pm 5	4.4 \pm 1	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	42.2 \pm 3	
19 Quinine sulfate	480	36	5.6 \pm 2	22.2 \pm 6	61.1 \pm 8 ^a	22.2 \pm 6 ^c	8.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	63.9 \pm 2 ^c	

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM										
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's carilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder			
10 (-)-Scopolamine hydrobromide trihydrate	0	47	2.3 \pm 1	0.0 \pm 0	9.3 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	9.3 \pm 2
	1000	47	6.4 \pm 1	25.5 \pm 3 ^b	17.0 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	23.4 \pm 4
	2000	44	2.3 \pm 1	25.0 \pm 5 ^b	18.2 \pm 5	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	36.4 \pm 3 ^b
	4000	47	6.4 \pm 1	34.0 \pm 5 ^a	36.2 \pm 5 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	38.3 \pm 5 ^c
	8000	39	15.4 \pm 4	28.2 \pm 4 ^c	41.0 \pm 5 ^c	2.6 \pm 1	5.1 \pm 1	15.4 \pm 4 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	66.7 \pm 4 ^a
	16,000	6	66.7 \pm 0 ^a	33.3 \pm 0 ^a	100.0 \pm 0 ^a	66.7 \pm 0 ^a	0.0 \pm 0	16.7 \pm 0 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a
11 Strychnine hydrochloride	0	45	0.0 \pm 0	7.5 \pm 1	2.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.0 \pm 1
	10	35	8.6 \pm 0	62.9 \pm 2 ^a	20.0 \pm 4	0.0 \pm 0	14.3 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.9 \pm 1	2.9 \pm 1	25.7 \pm 3
	20	29	48.8 \pm 4 ^a	93.1 \pm 1 ^a	20.7 \pm 7	0.0 \pm 0	44.8 \pm 6 ^a	6.9 \pm 3	3.4 \pm 2	3.4 \pm 2	3.4 \pm 2	3.4 \pm 2	20.7 \pm 5
	40	14	57.1 \pm 5 ^a	92.9 \pm 4 ^a	14.3 \pm 8	0.0 \pm 0	71.4 \pm 3 ^a	14.3 \pm 8	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	42.9 \pm 9 ^c
	30	43	0.0 \pm 0	2.6 \pm 1	2.6 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.7 \pm 1
	60	39	30.8 \pm 7 ^a	48.7 \pm 8 ^a	20.9 \pm 5	4.7 \pm 1	7.0 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.0 \pm 1
12 Theobromine	120	34	76.5 \pm 1 ^a	76.5 \pm 2 ^a	26.5 \pm 4 ^b	0.0 \pm 0	17.6 \pm 2 ^c	0.0 \pm 0	2.6 \pm 1	2.6 \pm 1	2.6 \pm 1	2.6 \pm 1	26.6 \pm 4
	240	21	95.2 \pm 1 ^a	90.5 \pm 3 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	52.9 \pm 5 ^a
	0	44	0.0 \pm 0	7.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	95.2 \pm 2 ^a
	100	39	2.6 \pm 1	2.6 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	15.0 \pm 3
	200	38	5.3 \pm 1	7.9 \pm 1	2.6 \pm 1	0.0 \pm 0	7.9 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	12.8 \pm 3
	400	30	0.0 \pm 0	26.7 \pm 8 ^b	6.7 \pm 1	0.0 \pm 0	3.3 \pm 1	3.3 \pm 1	3.3 \pm 1	3.3 \pm 1	3.3 \pm 1	3.3 \pm 1	15.4 \pm 4
13 (+)-Tubocurarine chloride hydrate	0	45	4.4 \pm 1	11.1 \pm 2	2.2 \pm 1	4.4 \pm 1	6.7 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	13.3 \pm 1
	10	40	2.5 \pm 1	10.0 \pm 1	17.5 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.4 \pm 1
	20	40	2.5 \pm 1	25.0 \pm 4	35.0 \pm 5 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	12.5 \pm 1
	40	31	9.7 \pm 2	48.4 \pm 10 ^a	58.1 \pm 10 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	15.0 \pm 2
	80	35	37.1 \pm 4 ^a	65.7 \pm 5 ^a	100.0 \pm 0 ^a	8.6 \pm 2	0.0 \pm 0	2.9 \pm 1	2.9 \pm 1	2.9 \pm 1	2.9 \pm 1	2.9 \pm 1	80.6 \pm 2 ^a
	0	45	0.0 \pm 0	2.2 \pm 1	6.7 \pm 2	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	97.1 \pm 1 ^a
15 Amygdalin	10	45	0.0 \pm 0	8.9 \pm 2	15.6 \pm 4	0.0 \pm 0	2.2 \pm 1	2.2 \pm 1	2.2 \pm 1	2.2 \pm 1	2.2 \pm 1	2.2 \pm 1	0.0 \pm 0
	20	44	0.0 \pm 0	20.5 \pm 4	34.1 \pm 8 ^c	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.4 \pm 1
	40	36	5.6 \pm 1	36.1 \pm 6 ^a	36.1 \pm 9 ^c	0.0 \pm 0	5.6 \pm 2	5.6 \pm 2	5.6 \pm 2	5.6 \pm 2	5.6 \pm 2	5.6 \pm 2	9.1 \pm 1
	80	36	5.6 \pm 1	44.4 \pm 7 ^a	16.6 \pm 7	2.8 \pm 1	5.6 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	44.4 \pm 8 ^a
	160	27	3.7 \pm 1	70.4 \pm 7 ^a	29.6 \pm 9	3.7 \pm 1	14.8 \pm 4 ^b	3.7 \pm 1	3.7 \pm 1	3.7 \pm 1	3.7 \pm 1	3.7 \pm 1	13.9 \pm 4
	0	44	0.0 \pm 0	9.1 \pm 2	15.9 \pm 5	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	51.9 \pm 7 ^a
16 Arbutin	10	42	2.4 \pm 1	9.5 \pm 2	46.6 \pm 8 ^c	4.8 \pm 1	4.8 \pm 1	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	2.3 \pm 1
	20	29	3.4 \pm 1	0.0 \pm 0	6.9 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	16.7 \pm 4
	40	24	0.0 \pm 0	0.0 \pm 0	20.8 \pm 7	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	6.9 \pm 2
	80	25	0.0 \pm 0	0.0 \pm 0	8.0 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	8.3 \pm 2
	160	14	0.0 \pm 0	0.0 \pm 0	35.5 \pm 10	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	16.3 \pm 2
	0	44	9.8 \pm 1	12.2 \pm 2	17.1 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.1 \pm 5
17 Convallatoxin	0	44	9.8 \pm 1	12.2 \pm 2	17.1 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	26.8 \pm 6

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SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM									
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder		
18 Coumarin	0	38	5.3 \pm 1	18.4 \pm 2	7.9 \pm 1	0.0 \pm 0	0.0 \pm 0	5.3 \pm 2	0.0 \pm 0	7.9 \pm 1		
	70	36	2.8 \pm 1	44.4 \pm 4 ^b	27.8 \pm 4	0.0 \pm 0	2.8 \pm 1	5.6 \pm 2	0.0 \pm 0	22.2 \pm 4		
	140	31	29.0 \pm 7 ^c	51.6 \pm 9 ^b	32.3 \pm 2 ^b	0.0 \pm 0	22.6 \pm 5 ^b	29.0 \pm 4	3.2 \pm 1	25.8 \pm 3		
	280	8	25.0 \pm 0	87.5 \pm 0 ^a	100.0 \pm 0 ^a	0.0 \pm 0	87.5 \pm 0 ^a	100.0 \pm 0 ^a	37.5 \pm 0 ^a	75.0 \pm 0 ^a		
19 Digitoxin	0	43	3.0 \pm 1	12.1 \pm 2	12.1 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	42.4 \pm 3		
	0.5	9	22.2 \pm 12	0.0 \pm 0	66.7 \pm 14 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	55.6 \pm 8		
	0	44	0.0 \pm 0	11.1 \pm 3	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	11.9 \pm 3		
	100	33	0.0 \pm 0	18.2 \pm 5	12.1 \pm 3	0.0 \pm 0	3.0 \pm 1	0.0 \pm 0	0.0 \pm 0	21.2 \pm 6		
20 Gentamycin sulfate	200	30	3.3 \pm 1	26.7 \pm 6	20.0 \pm 0	0.0 \pm 0	3.3 \pm 1	3.3 \pm 1	3.3 \pm 1	30.0 \pm 5		
	400	9	0.0 \pm 0	0.0 \pm 0	77.8 \pm 9 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	77.8 \pm 1 ^a		
	0	48	0.0 \pm 0	27.1 \pm 3	6.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	6.3 \pm 2		
	10	45	0.0 \pm 0	42.2 \pm 2	28.9 \pm 6 ^b	8.9 \pm 2	4.4 \pm 1	0.0 \pm 0	0.0 \pm 0	22.2 \pm 3		
21 Glycyrrhizin	10	45	2.9 \pm 1	57.1 \pm 3 ^b	25.7 \pm 4	0.0 \pm 0	2.9 \pm 1	0.0 \pm 0	0.0 \pm 0	25.7 \pm 4		
	20	35	7.1 \pm 1	75.0 \pm 4 ^a	17.9 \pm 6	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	32.1 \pm 6 ^b		
	40	28	33.3 \pm 0 ^a	100.0 \pm 0 ^a	44.4 \pm 0 ^b	0.0 \pm 0	0.0 \pm 0	11.1 \pm 0 ^b	11.1 \pm 0 ^b	22.2 \pm 0		
	80	9	2.3 \pm 1	36.4 \pm 1	18.2 \pm 4	4.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	22.7 \pm 4		
22 Hesperidin	0	44	7.3 \pm 1	65.9 \pm 3 ^b	7.3 \pm 2	2.4 \pm 1	0.0 \pm 0	4.9 \pm 1	0.0 \pm 0	22.0 \pm 4		
	10	41	7.1 \pm 2	69.0 \pm 2 ^c	9.5 \pm 4	0.0 \pm 0	0.0 \pm 0	4.8 \pm 2	0.0 \pm 0	26.2 \pm 3		
	20	42	8.0 \pm 2	56.0 \pm 8	8.0 \pm 3	4.0 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.0 \pm 4		
	40	25	13.0 \pm 2	56.5 \pm 4	43.5 \pm 11 ^b	4.3 \pm 1	0.0 \pm 0	17.4 \pm 3	0.0 \pm 0	47.8 \pm 5		
23 Kanamycin monosulfate	80	23	0.0 \pm 0	21.4 \pm 3	4.8 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1		
	0	43	2.7 \pm 1	54.1 \pm 3 ^c	13.5 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	13.5 \pm 3		
	250	37	2.4 \pm 1	53.7 \pm 4 ^c	7.3 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	4.9 \pm 1	24.4 \pm 6 ^b		
	500	41	2.6 \pm 1	63.2 \pm 4 ^a	26.3 \pm 2 ^b	0.0 \pm 0	2.6 \pm 1	13.2 \pm 1 ^b	5.3 \pm 1	28.9 \pm 4 ^b		
24 Naringin	1000	38	0.0 \pm 0	77.8 \pm 0 ^a	33.3 \pm 0 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	33.3 \pm 0 ^c		
	2000	18	0.0 \pm 0	28.9 \pm 0	18.4 \pm 5	0.0 \pm 0	2.6 \pm 1	0.0 \pm 0	0.0 \pm 0	2.6 \pm 1		
	0	46	2.9 \pm 1	38.2 \pm 5	26.5 \pm 7	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.9 \pm 2		
	50	34	5.3 \pm 2	31.6 \pm 2	10.5 \pm 2	0.0 \pm 0	2.6 \pm 1	5.3 \pm 2	2.6 \pm 1	10.5 \pm 1		
25 Neohesperidin	100	38	4.5 \pm 1	31.8 \pm 1	13.6 \pm 1	0.0 \pm 0	4.5 \pm 1	13.6 \pm 4	0.0 \pm 0	13.6 \pm 1		
	200	22	4.0 \pm 1	52.0 \pm 6	12.0 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0		
	400	25	0.0 \pm 0	54.5 \pm 0	36.4 \pm 0	9.1 \pm 0 ^b	9.1 \pm 1	9.1 \pm 0	9.1 \pm 0	27.3 \pm 0 ^b		
	800	11	7.3 \pm 0	29.3 \pm 5	7.3 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.9 \pm 1		
25 Neohesperidin	0	44	4.3 \pm 1	38.3 \pm 5	12.8 \pm 2	6.4 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1		
	10	47	2.4 \pm 1	48.8 \pm 5	17.1 \pm 3	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.3 \pm 1		
	20	41	15.6 \pm 2	42.2 \pm 6	37.8 \pm 7 ^c	2.2 \pm 1	17.8 \pm 4 ^b	2.2 \pm 1	2.2 \pm 1	20.0 \pm 4		
	40	45	11.1 \pm 2	63.9 \pm 4 ^c	33.3 \pm 5 ^c	0.0 \pm 0	2.8 \pm 1	0.0 \pm 0	0.0 \pm 0	27.8 \pm 3 ^b		
160	36	5.0 \pm 2	20.0 \pm 2	85.0 \pm 4 ^a	0.0 \pm 0	35.0 \pm 11 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	50.0 \pm 11 ^a		

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM									
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder		
26 Ouabain octahydrate	0	47	2.1 \pm 1	27.7 \pm 3	23.4 \pm 4	2.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	17.0 \pm 2	
	50	35	14.3 \pm 1	25.7 \pm 5	5.7 \pm 1	0.0 \pm 0	25.7 \pm 7 ^c	2.9 \pm 1	5.7 \pm 1	5.7 \pm 1	31.4 \pm 4	
	100	45	4.4 \pm 1	31.1 \pm 4	0.0 \pm 0	0.0 \pm 0	8.9 \pm 2	0.0 \pm 0	0.0 \pm 0	2.2 \pm 1	13.3 \pm 4	
	200	11	0.0 \pm 0	45.5 \pm 15	9.1 \pm 3	0.0 \pm 0	36.4 \pm 21 ^c	0.0 \pm 0	0.0 \pm 0	9.1 \pm 5	54.5 \pm 7 ^b	
		0	42	0.0 \pm 0	25.0 \pm 2	5.0 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	20.0 \pm 4	
27 Phloridzin dihydrate	70	45	4.4 \pm 1	26.7 \pm 2	4.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.9 \pm 4	
	140	47	6.4 \pm 2	34.0 \pm 3	17.0 \pm 2	0.0 \pm 0	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	42.6 \pm 4	
	280	44	4.5 \pm 1	22.7 \pm 2	38.6 \pm 6 ^c	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	43.2 \pm 2	
	560	41	17.1 \pm 1 ^c	43.9 \pm 3	34.1 \pm 5 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	34.1 \pm 5	
	1120	10	0.0 \pm 0	80.0 \pm 0 ^c	90.0 \pm 0 ^a	2.0 \pm a	0.0 \pm 0	50.0 \pm 0 ^a	50.0 \pm 0 ^a	50.0 \pm a	70.0 \pm 0 ^b	
28 Rutin hydrate	0	43	0.0 \pm 0	12.5 \pm 2	7.5 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.5 \pm 1	0.0 \pm 0	10.0 \pm 1	
	1000	35	0.0 \pm 0	8.6 \pm 1	5.7 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.7 \pm 1	
	2000	37	13.5 \pm 3 ^b	10.8 \pm 2	2.7 \pm 1	2.7 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.7 \pm 1	
	4000	45	2.2 \pm 1	40.0 \pm 3 ^b	6.7 \pm 2	2.2 \pm 1	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	8.9 \pm 2	
	8000	44	6.8 \pm 2	56.8 \pm 3 ^a	11.4 \pm 2	2.3 \pm 1	6.8 \pm 1	13.6 \pm 0 ^b	13.6 \pm 0 ^b	2.3 \pm 1	29.5 \pm 7 ^b	
29 Streptomycin sulfate	16,000	7	0.0 \pm 0	28.6 \pm 0	85.7 \pm 0 ^a	0.0 \pm 0	57.1 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	71.4 \pm 0 ^a	
	0	42	0.0 \pm 0	4.8 \pm 1	23.8 \pm 6	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	23.8 \pm 3	
	250	27	3.7 \pm 1	3.7 \pm 1	7.4 \pm 0	0.0 \pm 0	7.4 \pm 0	3.7 \pm 1	3.7 \pm 1	3.7 \pm 1	14.2 \pm 5	
	500	27	0.0 \pm 0	22.2 \pm 1	14.8 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	3.7 \pm 1	0.0 \pm 0	14.8 \pm 4	
	1000	28	0.0 \pm 0	28.6 \pm 4	7.1 \pm 2	0.0 \pm 0	3.6 \pm 1	10.7 \pm 3	10.7 \pm 3	0.0 \pm 0	50.0 \pm 4	
30 Cadmium(II) chloride	2000	30	0.0 \pm 0	30.0 \pm 0 ^b	33.3 \pm 3	0.0 \pm 0	3.3 \pm 1	16.7 \pm 4 ^b	16.7 \pm 4 ^b	3.3 \pm 1	70.0 \pm 1 ^a	
	4000	26	0.0 \pm 0	46.2 \pm 2 ^a	26.9 \pm 1	0.0 \pm 0	7.7 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	46.2 \pm 2	
	0	47	0.0 \pm 0	19.1 \pm 2	4.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	6.4 \pm 2	
	10	35	54.3 \pm 3 ^a	62.9 \pm 7 ^a	94.3 \pm 2 ^a	0.0 \pm 0	5.7 \pm 2	17.1 \pm 2 ^b	17.1 \pm 2 ^b	8.6 \pm 2	74.3 \pm 2 ^a	
	20	39	48.7 \pm 3 ^a	61.5 \pm 2 ^a	79.5 \pm 4 ^a	0.0 \pm 0	5.1 \pm 1	7.7 \pm 1	7.7 \pm 1	0.0 \pm 0	66.7 \pm 6 ^a	
31 Copper(II) nitrate trihydrate	40	14	71.4 \pm 9 ^a	64.3 \pm 1 ^a	71.4 \pm 8 ^a	7.1 \pm 4	0.0 \pm 0	14.3 \pm 2	14.3 \pm 2	0.0 \pm 0	71.4 \pm 8 ^a	
	0	43	0.0 \pm 0	13.2 \pm 2	23.7 \pm 5	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.9 \pm 5	
	6.25	13	30.8 \pm 2 ^c	61.5 \pm 4 ^a	61.5 \pm 10 ^b	0.0 \pm 0	15.4 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	69.2 \pm 5 ^b	
	12.5	13	15.4 \pm 0	76.9 \pm 4 ^a	30.8 \pm 5	7.7 \pm 3	46.2 \pm 5 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	61.5 \pm 10	
	0	44	2.6 \pm 1	7.7 \pm 2	7.7 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.2 \pm 2	
32 Lead acetate trihydrate	10	29	0.0 \pm 0	6.9 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	31.0 \pm 4	
	20	28	3.6 \pm 1	3.6 \pm 1	3.6 \pm 1	0.0 \pm 0	0.0 \pm 0	3.6 \pm 1	3.6 \pm 1	3.6 \pm 1	39.3 \pm 0	
	40	30	6.7 \pm 2	3.3 \pm 1	3.3 \pm 1	0.0 \pm 0	0.0 \pm 0	6.7 \pm 2	6.7 \pm 2	0.0 \pm 0	26.7 \pm 2	
	0	34	0.0 \pm 0	11.8 \pm 2	8.8 \pm 4	0.0 \pm 0	2.9 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.7 \pm 1	
	1000	37	2.7 \pm 1	27.0 \pm 4	37.8 \pm 4 ^c	0.0 \pm 0	0.0 \pm 0	2.7 \pm 1	2.7 \pm 1	0.0 \pm 0	16.2 \pm 2	
33 Lithium chloride	2000	35	25.7 \pm 3 ^c	48.6 \pm 7 ^c	94.3 \pm 2 ^a	0.0 \pm 0	0.0 \pm 0	22.9 \pm 3 ^c	22.9 \pm 3 ^c	0.0 \pm 0	54.3 \pm 6 ^a	
	4000	15	53.3 \pm 9 ^a	80.0 \pm 6 ^a	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	86.7 \pm 1 ^a	86.7 \pm 1 ^a	33.3 \pm 10 ^c	93.3 \pm 2 ^a	

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM										
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's carilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder			
34 Chloramphenicol	0	44	0.0 \pm 0	6.8 \pm 1	4.5 \pm 1	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	2.3 \pm 1
	100	45	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1
	200	41	0.0 \pm 0	12.2 \pm 2	4.9 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	22.0 \pm 2
	400	47	17.0 \pm 3 ^c	36.2 \pm 5 ^a	29.8 \pm 5 ^c	0.0 \pm 0	6.4 \pm 1	0.0 \pm 0	0.0 \pm 0	2.1 \pm 1	0.0 \pm 0	0.0 \pm 0	14.9 \pm 1
	800	14	35.7 \pm 16 ^a	42.9 \pm 3 ^a	50.0 \pm 6 ^a	0.0 \pm 0	7.1 \pm 3	0.0 \pm 0	7.1 \pm 3	14.3 \pm 6 ^b	14.3 \pm 6 ^b	0.0 \pm 0	14.3 \pm 1
	0	44	0.0 \pm 0	11.4 \pm 0	4.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	11.4 \pm 2
	1000	37	0.0 \pm 0	18.9 \pm 3	2.7 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	16.2 \pm 1
	2000	42	0.0 \pm 0	19.0 \pm 3	7.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	35.7 \pm 4 ^b
	4000	37	0.0 \pm 0	8.1 \pm 0	8.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	18.9 \pm 3
	8000	38	15.8 \pm 2 ^c	28.9 \pm 4	21.1 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	36.8 \pm 6 ^b
36 Glycerol	16,000	31	29.0 \pm 4 ^a	32.3 \pm 5	35.5 \pm 2 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	29.0 \pm 9
	0	43	2.3 \pm 1	34.9 \pm 2	9.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	7.0 \pm 1
	2000	43	0.0 \pm 0	20.9 \pm 2	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	14.0 \pm 3
	4000	44	0.0 \pm 0	13.6 \pm 3	4.451	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	11.240
	8000	45	0.0 \pm 0	13.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	15.062
	16,000	43	0.0 \pm 0	25.6 \pm 1	9.3 \pm 3	0.0 \pm 0	7.0 \pm 2 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	16.631
	0	47	0.0 \pm 0	8.5 \pm 1	8.5 \pm 2	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	2.1 \pm 1	0.0 \pm 0	23.4 \pm 2
	100	16	6.3 \pm 0	18.8 \pm 0	18.8 \pm 0	6.3 \pm 0	18.8 \pm 0	18.8 \pm 0	18.8 \pm 0	6.3 \pm 0	18.8 \pm 0 ^c	0.0 \pm 0	31.3 \pm 0
	200	14	0.0 \pm 0	14.3 \pm 0	35.7 \pm 0 ^b	0.0 \pm 0	35.7 \pm 0 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0
	0	42	0.0 \pm 0	14.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.8 \pm 1
38 Acetic acid	50	45	2.2 \pm 1	28.9 \pm 2	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.2 \pm 1	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	28.9 \pm 7 ^b
	100	44	27.3 \pm 3 ^a	86.4 \pm 3 ^a	31.8 \pm 2 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	45.5 \pm 8 ^a
	200	15	62.7 \pm 8 ^a	93.3 \pm 4 ^a	80.0 \pm 6 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.0 \pm 5 ^a	6.7 \pm 4 ^b	6.7 \pm 4 ^b	0.0 \pm 0	86.7 \pm 7 ^a
	0	42	2.4 \pm 1	16.7 \pm 3	21.4 \pm 5	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	14.3 \pm 3
	7.5	38	5.3 \pm 1	21.1 \pm 3	18.343	5.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.3 \pm 1
	15	41	0.0 \pm 0	17.1 \pm 1	9.8 \pm 3	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	2.4 \pm 1	2.641	0.0 \pm 0	7.431
	30	40	0.0 \pm 0	52.5 \pm 2 ^a	25.0 \pm 7	2.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.5 \pm 1
	0	46	2.2 \pm 1	13.0 \pm 2	4.3 \pm 1	0.0 \pm 0	2.2 \pm 1	0.0 \pm 0	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.3 \pm 1
	100	47	6.4 \pm 1	8.5 \pm 1	14.9 \pm 2	4.3 \pm 1	2.1 \pm 1	4.3 \pm 1	2.1 \pm 1	8.5 \pm 1	0.0 \pm 0	0.0 \pm 0	21.3 \pm 2
	200	41	22.0 \pm 6 ^c	26.8 \pm 4	29.3 \pm 7 ^c	4.9 \pm 2	4.9 \pm 2	4.9 \pm 2	4.9 \pm 2	31.7 \pm 9 ^a	14.6 \pm 5 ^b	14.6 \pm 5 ^b	24.4 \pm 6 ^b
40 Sodium oxalate	400	16	12.5 \pm 0	0.0 \pm 0	6.3 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	87.5 \pm 0 ^a	43.8 \pm 0 ^a	43.8 \pm 0 ^a	0.0 \pm 0	12.5 \pm 0
	0	41	2.4 \pm 1	14.6 \pm 2	4.9 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	7.3 \pm 1
	20	40	2.5 \pm 1	22.5 \pm 4	0.0 \pm 0	2.5 \pm 1	0.0 \pm 0	2.5 \pm 1	0.0 \pm 0	5.0 \pm 1	0.0 \pm 0	0.0 \pm 0	2.5 \pm 1
	40	26	0.0 \pm 0	15.4 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	3.8 \pm 1
	80	8	75.0 \pm 0 ^a	25.0 \pm 0	12.5 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	12.5 \pm 0	0.0 \pm 0	0.0 \pm 0	62.5 \pm 0 ^a

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM										
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder			
42 Ampicillin sodium	0	43	0.0 \pm 0	16.3 \pm 2	18.6 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	16.3 \pm 2
	250	44	0.0 \pm 0	25.0 \pm 2	27.3 \pm 7	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	11.341
	500	41	0.0 \pm 0	34.1 \pm 1	22.0 \pm 7	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	0.0 \pm 0	34.1 \pm 2
	1000	38	0.0 \pm 0	21.1 \pm 3	31.6 \pm 9	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.9 \pm 5
	2000	39	0.0 \pm 0	28.2 \pm 3	20.5 \pm 8	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.6 \pm 1	2.6 \pm 1	35.9 \pm 7
43 Cyclophosphamide monohydrate	4000	38	0.0 \pm 0	5.3 \pm 1	13.2 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	34.2 \pm 5
	0	42	0.0 \pm 0	13.8 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0
	1000	28	3.6 \pm 1	21.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	436 \pm 1
	2000	11	45.5 \pm 6 ^a	90.9 \pm 4 ^a	54.5 \pm 14 ^a	9.1 \pm 4	9.1 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	90.9 \pm 4 ^a
	0	45	0.0 \pm 0	8.0 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.0 \pm 1
44 Paracetamol	100	27	0.0 \pm 0	7.4 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	18.5 \pm 3
	200	24	0.0 \pm 0	20.9 \pm 5	4.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	29.2 \pm 10
	400	25	4.0 \pm 1	24.0 \pm 7	12.0 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.0 \pm 1	4.0 \pm 1	4.0 \pm 1	20.0 \pm 5
	0	44	0.0 \pm 0	9.1 \pm 1	4.5 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	9.1 \pm 1
	50	44	0.0 \pm 0	9.1 \pm 1	2.431	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	20.5 \pm 3
45 Phenacetin	100	43	0.0 \pm 0	14.0 \pm 0	7.0 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	39.5 \pm 3 ^c
	200	43	27.9 \pm 3 ^a	65.1 \pm 0 ^a	16.3 \pm 2	0.0 \pm 0	2.3 \pm 1	16.3 \pm 4 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	55.8 \pm 6 ^a
	0	42	0.0 \pm 0	10.3 \pm 1	10.231	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	37.9 \pm 2
	250	26	38.5 \pm 6 ^c	100.0 \pm 0 ^a	15.4 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a
	500	12	50.0 \pm 7 ^a	83.3 \pm 7 ^a	33.3 \pm 0	0.0 \pm 0	8.3 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	83.3 \pm 0 ^c
46 Benserazide hydrochloride	1000	5	20.0 \pm 0	80.0 \pm 0 ^a	40.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	80.0 \pm 0 ^c
	0	42	0.0 \pm 0	11.9 \pm 2	7.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.141
	1	37	0.0 \pm 0	24.3 \pm 4	24.3 \pm 5	2.7 \pm 1	2.7 \pm 1	2.7 \pm 1	2.7 \pm 1	2.7 \pm 1	2.7 \pm 1	2.7 \pm 1	146.821
	2	39	7.7 \pm 1	35.9 \pm 4 ^b	23.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.2 \pm 4 ^a	0.0 \pm 0	0.0 \pm 0	25.6 \pm 4 ^b
	4	15	33.3 \pm 0 ^a	33.3 \pm 0	53.3 \pm 0 ^a	0.0 \pm 0	6.7 \pm 0	13.3 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	40.0 \pm 0 ^c
47 Chlorpromazine hydrochloride	0	46	0.0 \pm 0	21.7 \pm 3	6.5 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	17.4 \pm 1
	200	40	0.0 \pm 0	15.503	22.5 \pm 6	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	12.5 \pm 3
	400	38	0.0 \pm 0	28.9 \pm 4	28.9 \pm 8 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	42.1 \pm 2 ^b
	800	35	8.6 \pm 1	40.0 \pm 8	60.805 ^a	2.9 \pm 1	0.0 \pm 0	14.3 \pm 8 ^b	2.9 \pm 2	14.3 \pm 5 ^b	0.0 \pm 0	0.0 \pm 0	68.6 \pm 2 ^a
	1600	14	21.4 \pm 9 ^a	57.1 \pm 19 ^b	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	14.3 \pm 5 ^b	0.0 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a
48 Isoniazid	0	43	0.0 \pm 0	5.3 \pm 1	2.6 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.6 \pm 1
	5	42	0.0 \pm 0	11.9 \pm 2	4.8 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	4.8 \pm 1
	10	37	16.2 \pm 4 ^b	29.7 \pm 5 ^c	10.8 \pm 1	0.0 \pm 0	2.7 \pm 1	35.1 \pm 5 ^a	0.0 \pm 0	2.4 \pm 1	2.7 \pm 1	2.7 \pm 1	10.8 \pm 2
	0	42	0.0 \pm 0	2.4 \pm 1	16.7 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1
	1000	43	2.3 \pm 1	30.2 \pm 2 ^c	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1
49 Phenelzine sulfate	2000	42	2.4 \pm 1	45.2 \pm 2 ^a	4.8 \pm 1	0.0 \pm 0	2.4 \pm 1	7.1 \pm 2	0.0 \pm 0	7.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0
	4000	40	15.0 \pm 6 ^b	62.5 \pm 4 ^a	15.0 \pm 6	10.0 \pm 4 ^b	10.0 \pm 4 ^b	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4 ^b	22.5 \pm 9 ^c
	8000	15	20.0 \pm 5 ^b	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0
	0	43	0.0 \pm 0	5.3 \pm 1	2.6 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.6 \pm 1
	5	42	0.0 \pm 0	11.9 \pm 2	4.8 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	4.8 \pm 1
50 Ethambutol dihydrochloride	10	37	16.2 \pm 4 ^b	29.7 \pm 5 ^c	10.8 \pm 1	0.0 \pm 0	2.7 \pm 1	35.1 \pm 5 ^a	0.0 \pm 0	2.4 \pm 1	2.7 \pm 1	2.7 \pm 1	10.8 \pm 2
	0	42	0.0 \pm 0	2.4 \pm 1	16.7 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1
	1000	43	2.3 \pm 1	30.2 \pm 2 ^c	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1
	2000	42	2.4 \pm 1	45.2 \pm 2 ^a	4.8 \pm 1	0.0 \pm 0	2.4 \pm 1	7.1 \pm 2	0.0 \pm 0	7.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0
	4000	40	15.0 \pm 6 ^b	62.5 \pm 4 ^a	15.0 \pm 6	10.0 \pm 4 ^b	10.0 \pm 4 ^b	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4	10.0 \pm 4 ^b	22.5 \pm 9 ^c

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM									
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder		
51 Verapamil hydrochloride	0	45	0.0 \pm 0	15.6 \pm 3	11.1 \pm 3	0.0 \pm 0	2.2 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	17.8 \pm 3	
	10	38	0.0 \pm 0	13.2 \pm 1	26.3 \pm 7	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	15.8 \pm 2	
	20	33	0.0 \pm 0	9.1 \pm 1	21.2 \pm 7	0.0 \pm 0	3.0 \pm 1	3.0 \pm 1	3.0 \pm 1	0.0 \pm 0	15.2 \pm 1	
	40	38	21.1 \pm 7 ^c	13.2 \pm 3	26.3 \pm 9	0.0 \pm 0	5.3 \pm 2	18.4 \pm 7 ^b	2.6 \pm 1	0.0 \pm 0	18.4 \pm 3	
	80	20	65.0 \pm 6 ^a	30.0 \pm 2	85.0 \pm 2 ^a	0.0 \pm 0	5.0 \pm 1	70.0 \pm 2 ^a	0.0 \pm 0	0.0 \pm 0	60.0 \pm 4 ^a	
	0	43	0.0 \pm 0	9.3 \pm 2	4.7 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	27.9 \pm 4	
	10	39	0.0 \pm 0	15.4 \pm 4	20.5 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	38.5 \pm 6	
	20	41	7.3 \pm 1	19.5 \pm 4	24.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	22.0 \pm 2	
	40	43	30.2 \pm 4 ^a	16.3 \pm 3	58.1 \pm 2 ^a	0.0 \pm 0	0.0 \pm 0	2.3 \pm 1	0.0 \pm 0	0.0 \pm 0	44.2 \pm 5	
	80	22	81.8 \pm 3 ^a	36.4 \pm 7 ^b	86.4 \pm 1 ^a	0.0 \pm 0	13.6 \pm ^b	18.2 \pm 3 ^c	0.0 \pm 0	0.0 \pm 0	90.9 \pm 2 ^a	
53 Sodium azide	0	41	2.4 \pm 1	4.9 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	7.3 \pm 0	
	0.5	46	2.2 \pm 1	34.8 \pm 5 ^c	13.0 \pm 2	0.0 \pm 0	0.0 \pm 0	4.3 \pm 1	4.3 \pm 1	0.0 \pm 0	15.2 \pm 1	
	1	38	5.3 \pm 1	57.9 \pm 9 ^a	13.2 \pm 1	5.3 \pm 1	5.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	28.9 \pm 1 ^b	
	2	5	60.0 \pm 0 ^a	40.0 \pm 0 ^a	60.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	20.0 \pm ^b	0.0 \pm 0	0.0 \pm 0	40.0 \pm 0 ^b	
	0	44	0.0 \pm 0	18.2 \pm 2	6.8 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
54 Dimethyl sulfoxide	2000	31	3.2 \pm 1	22.6 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
	4000	34	8.8 \pm 3	26.5 \pm 3	5.9 \pm 1	0.0 \pm 0	0.0 \pm 0	2.9 \pm 1	2.9 \pm 1	0.0 \pm 0	14.0 \pm 3 ^b	
	8000	42	0.0 \pm 0	16.7 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
	16,000	44	13.6 \pm 1 ^b	20.5 \pm 2	9.1 \pm 2	0.0 \pm 0	0.0 \pm 0	4.5 \pm 1	2.3 \pm 1	0.0 \pm 0	20.5 \pm 1 ^c	
	0	41	0.0 \pm 0	17.1 \pm 3	7.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	2.4 \pm 1	
55 Formaldehyde	2	45	0.0 \pm 0	42.2 \pm 7 ^b	11.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.4 \pm 1	
	4	42	4.8 \pm 1	9.5 \pm 2	7.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.8 \pm 1	
	8	35	2.9 \pm 1	17.1 \pm 2	8.6 \pm 3	0.0 \pm 0	2.9 \pm 1	2.9 \pm 1	2.9 \pm 1	0.0 \pm 0	8.6 \pm 3	
	16	14	0.0 \pm 0	50.0 \pm 7 ^b	57.1 \pm 7 ^a	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	42.9 \pm 4 ^a	
	0	42	0.0 \pm 0	7.1 \pm 1	4.8 \pm 1	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	
56 Phenformin hydrochloride	100	47	0.0 \pm 0	12.8 \pm 2	4.3 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.3 \pm 1	
	200	41	2.4 \pm 1	19.5 \pm 4	2.4 \pm 1	0.0 \pm 0	2.4 \pm 1	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	9.8 \pm 1	
	400	42	0.0 \pm 0	66.7 \pm 7 ^a	9.5 \pm 3	0.0 \pm 0	0.0 \pm 0	4.8 \pm 1	0.0 \pm 0	0.0 \pm 0	35.4 \pm 8 ^a	
	0	42	0.0 \pm 0	12.5 \pm 1	3.1 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	6.3 \pm 1	
	100	36	2.8 \pm 1	33.3 \pm 1	19.4 \pm 3	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	38.9 \pm 5 ^c	
57 Ropinirole hydrochloride	200	41	29.3 \pm 3 ^a	36.6 \pm 1 ^b	31.7 \pm 2 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	41.5 \pm 2 ^c	
	400	30	93.3 \pm 1 ^a	90.0 \pm 2 ^a	56.7 \pm 3 ^a	0.0 \pm 0	0.0 \pm 0	6.7 \pm 1	0.0 \pm 0	0.0 \pm 0	83.3 \pm 3 ^a	
	0	40	0.0 \pm 0	5.3 \pm 2	15.8 \pm 4	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	10.5 \pm 3	
	2	37	13.5 \pm 2 ^b	2.7 \pm 1	78.4 \pm 5 ^a	0.0 \pm 0	0.0 \pm 0	27.0 \pm 5 ^c	0.0 \pm 0	0.0 \pm 0	51.4 \pm 8 ^a	
	4	18	5.6 \pm 3	22.2 \pm 7 ^b	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	50.0 \pm 13 ^a	5.6 \pm 1	0.0 \pm 0	77.8 \pm 6 ^a	
59 Sodium dodecyl sulfate	8	8	0.0 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a	0.0 \pm 0	0.0 \pm 0	75.0 \pm ^a	12.5 \pm 0	0.0 \pm 0	100.0 \pm 0 ^a	
	0	41	2.4 \pm 1	12.122	2.4 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.9 \pm 1	
	1	36	2.8 \pm 1	27.8 \pm 6	11.1 \pm 4	0.0 \pm 0	2.8 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	5.6 \pm 1	
	2	24	0.0 \pm 0	8.3 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.2 \pm 1	
	4	12	16.7 \pm 0	83.3 \pm 0 ^a	25.0 \pm 3 ^b	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	25.0 \pm 10 ^b	

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Compounds	Concentrations	Survivors obtained at day 5 (N)	Percent morphological abnormalities \pm SEM							
			Pericardial oedema	Yolk sac oedema	Dispersed pigment cells	Bent tail	Curved body axis	Meckel's cartilage hypoplasia	Branchial arch hypoplasia	Uninflated swim bladder
60 Barbitol sodium	0	45	0.0 \pm 0	11.1 \pm 2	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	4.4 \pm 1
	500	41	0.0 \pm 0	31.7 \pm 3	9.8 \pm 1	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	19.5 \pm 4
	1000	43	0.0 \pm 0	27.9 \pm 5	25.6 \pm 1 ^c	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	0.0 \pm 0	58.6 \pm 5 ^a
	2000	31	3.2 \pm 1	12.9 \pm 0	29.9 \pm 8 ^c	0.0 \pm 0	3.2 \pm 1	0.0 \pm 0	0.0 \pm 0	83.9 \pm 3 ^a
	4000	26	3.8 \pm 1	23.1 \pm 2	30.8 \pm 0 ^c	0.0 \pm 0	3.8 \pm 2	0.0 \pm 0	0.0 \pm 0	69.2 \pm 7 ^a
	8000	10	40.0 \pm 18 ^a	70.0 \pm 13 ^a	80.0 \pm 9 ^a	0.0 \pm 0	20.0 \pm 9 ^a	20.0 \pm 9 ^a	10.0 \pm 4 ^a	100.0 \pm 0 ^a

A different geometric scale was used for different compounds because of the variations in toxicity found with the logarithmic range-finding.¹ The values given are the mean percentage morphological abnormalities from three replicates; the geometric series of concentrations C0, C1, and so on, are given for each compound in Supplementary Table S2. Significance levels of all phenotypic effects for each concentration for each compound were calculated from three independent experiments.

Statistical icons: ^a $p < 0.001$, ^b $p < 0.05$, and ^c $p < 0.01$.

SEM, standard error of the mean.