

Resveratrol Subchronic Perinatal Study - Rats

Table 2: Live Litter Size and Survival

Parameter ^{c,d}	Control	78 mg/kg	156 mg/kg	312.5 mg/kg	625 mg/kg	1250 mg/kg	Trend ^a
Live Per Litter							
PND 4 Precull Male	4.17 ± 0.35 [18]	4.67 ± 0.52 [21]	4.42 ± 0.62 [12]	4.05 ± 0.55 [19]	4.00 ± 0.76 [11]	5.06 ± 0.46 [17]	0.472+
PND 4 Precull Female	4.06 ± 0.36 [18]	4.14 ± 0.48 [21]	3.42 ± 0.57 [12]	3.37 ± 0.46 [19]	3.64 ± 0.36 [11]	3.71 ± 0.53 [17]	0.313-
PND 4 Precull Total ⁱ	8.53 ± 0.56 [19]	8.86 ± 0.49 [22]	8.00 ± 0.78 [13]	7.42 ± 0.77 [19]	7.64 ± 0.99 [11]	8.61 ± 0.53 [18]	0.679-
PND 4 Postcull Male	4.00 ± 0.00 [7]	4.00 ± 0.00 [7]	4.00 ± 0.22 [7]	4.14 ± 0.14 [7]	4.14 ± 0.14 [7]	4.00 ± 0.22 [7]	0.611+
PND 4 Postcull Female	4.00 ± 0.00 [7]	4.00 ± 0.00 [7]	4.00 ± 0.22 [7]	3.86 ± 0.14 [7]	3.86 ± 0.14 [7]	4.00 ± 0.22 [7]	0.611-
PND 4 Postcull Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	1.000+
PND 7 Live Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	1.000+
PND 10 Live Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	1.000+
PND 14 Live Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	1.000+
PND 17 Live Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	1.000+
PND 21 Live Male	4.00 ± 0.00 [7]	4.00 ± 0.00 [7]	3.86 ± 0.26 [7]	4.14 ± 0.14 [7]	4.14 ± 0.14 [7]	4.00 ± 0.22 [7]	0.586+
PND 21 Live Female	4.00 ± 0.00 [7]	4.00 ± 0.00 [7]	4.00 ± 0.22 [7]	3.86 ± 0.14 [7]	3.86 ± 0.14 [7]	4.00 ± 0.22 [7]	0.611-
PND 21 Live Total	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	7.86 ± 0.14 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	8.00 ± 0.00 [7]	0.770+
% Male PND 4 Precull							
% Male in Dose ^{b,e}	50.7 [148]	53.0 [185]	56.4 [94]	54.6 [141]	52.4 [84]	57.7 [149]	
% Male in Litter	51.1 ± 2.9 [18]	53.0 ± 5.2 [21]	58.4 ± 6.0 [12]	54.8 ± 4.7 [19]	43.4 ± 7.5 [11]	59.2 ± 4.6 [17]	0.425+
Survival							
Total Dead PND 1-4 ^{e,f}	1 [1]	1 [1]	0 [0]	2 [2]	0 [0]	1 [1]	
Total Dead PND 4-21 ^{e,f}	0 [0]	0 [0]	1 [1]	0 [0]	0 [0]	0 [0]	
Dead/Litter PND 1-4	0.05 ± 0.05 [19]	0.05 ± 0.05 [22]	0.00 ± 0.00 [13]	0.11 ± 0.07 [19]	0.00 ± 0.00 [11]	0.06 ± 0.06 [18]	0.944+
Dead/Litter PND 4-21	0.00 ± 0.00 [7]	0.00 ± 0.00 [7]	0.14 ± 0.14 [7]	0.00 ± 0.00 [7]	0.00 ± 0.00 [7]	0.00 ± 0.00 [7]	0.770-
Survival 1-4 ^g	0.995 ± 0.005 [19]	1.000 ± 0.000 [22]	1.000 ± 0.000 [13]	0.981 ± 0.014 [19]	1.000 ± 0.000 [11]	0.994 ± 0.006 [18]	0.655-
Survival 4-21 ^h	1.000 ± 0.000 [7]	1.000 ± 0.000 [7]	0.982 ± 0.018 [7]	1.000 ± 0.000 [7]	1.000 ± 0.000 [7]	1.000 ± 0.000 [7]	0.770+

a: Each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from Jonckheere's trend test), or with Dunn's test when no trend was present [* = P<0.05, ** = P<0.01]

b: 100 x (Number of live males in dose group) / (Number of live males and females in dose group) [Number of pups]

c: Mean ± standard error [Number of litters] unless otherwise specified

d: Litters where the male/female pup counts were inconsistent between PND 1 and PND 4 were excluded from the male/female-specific endpoints.

e: No statistics were performed on this endpoint

f: Number of dead pups in dose [Number of litters with dead pups]

g: Number alive on PND 4 precull / Number alive on PND 1

h: Number alive on PND 21 / Number alive on PND 4 postcull

i: Dams that had differing total counts on PND 1 and PND 4 not included