

**Table 1.** Effects of PUL on mice, recorded in a functional observational battery (% values).

Doses (gr/Kg)	Post-treatment (hours)			
	1	6	24	
<b>Breathing</b>				
Control	Irregular	0	0	0
	Normal	100	100	100
0.005	Irregular	10	0	20 *
	Normal	90	100	80
0.3	Irregular	0	0	0
	Normal	100	100	100
2	Irregular	50 *	40 *	37.5 *
	Normal	50	60	62.5
<b>Piloerection</b>				
Control	Yes	0	0	0
	No	100	100	100
0.005	Yes	60 *	30	20
	No	40	70	80
0.3	Yes	41.7 *	0	0
	No	58.3	100	100
2	Yes	0	20	12.5
	No	100	80	87.5

<b>Eyelid closure</b>				
Control	Open	100	100	100
	Close	0	0	0
0.005	Open	90	90	100
	Close	10	10	0
0.3	Open	100	100	100
	Close	0	0	0
2	Open	70	60 *	100
	Close	30	40	0
<b>Lacrimation</b>				
Control	Yes	0	0	0
	No	100	100	100
0.005	Yes	0	0	0
	No	100	100	100
0.3	Yes	0	0	0
	No	100	100	100
2	Yes	20	30*	0
	No	80	70	100
<b>Ear reflection</b>				
Control	Retracted	100	100	100
	Not retracted	0	0	0
0.005	Retracted	100	100	100

	Not retracted	0	0	0
0.3	Retracted	100	100	100
	Not retracted	0	0	0
2	Retracted	50	50	62.5
	Not retracted	50*	50*	37.5*
<b>Bite</b>				
Control	Yes	7.69	0	0
	No	92.31	100	100
0.005	Yes	0	0	0
	No	100	100	100
0.3	Yes	25	0	0
	No	75	100	100
2	Yes	0	0	0
	No	100	100	100
<b>Tail position</b>				
Control	Crushed	66.7	100	83.3
	Horizontal	33.3	0	16.7
	Elevated	0	0	0
0.005	Crushed	30	40	50
	Horizontal	0	0	0
	Elevated	70 *	60 *	50 *
0.3	Crushed	25	100	91.7
	Horizontal	75	0	8.3

	Elevated	0	0	0
	Crushed	100	80	87.5
2	Horizontal	0	0	0
	Elevated	0	20	12.5
<b>Home cage observations</b>				
	Normal	100	66.67	75
Control	Jump	0	33.33	25
	Without activity	0	0	0
	Normal	80 *	100	100 *
0.005	Jump	0	0	0
	Without activity	20	0	0
	Normal	66.67	83.33	50
0.3	Jump	33.3	16.67*	50
	Without activity	0	0	0
	Normal	60	60	50
2	Jump	0	0	0
	Without activity	40	40	0
<b>Posture</b>				
	Flat pelvis	0	0	0
Control	Normal	100	100	100
	Back raised up	0	0	0
	Flat pelvis	0	0	0
0.005	Normal	100	100	100

	Back raised up	0	0	0
0.3	Flat pelvis	0	0	0
	Normal	100	100	100
	Back raised up	0	0	0
2	Flat pelvis	30 *	30 *	37.5 *
	Normal	70	70	62.5
	Back raised up	0	0	0
<b>Transfer behavior</b>				
Control	Without movement:	0	0	0
	Little movement	0	0	0
	Normal	91.7	100	83.33
	Excited	8.3	0	16.7
0.005	Without movement:	10	0	0
	Little movement	20	20	20
	Normal	70	80	80
	Excited	0	0	0
0.3	Without movement:	0	0	0
	Little movement	0	0	0
	Normal	100	100	41.67
	Excited	0	0	58.33 *
2	Without movement:	20	20	12.5

	Little movement	30	30	25
	Normal	50	50 *	62.5
	Excited	0	0	0
<b>Ambulation</b>				
0	No	0	0	0
	Yes	100	100	100
0.005	No	0	0	0
	Yes	100	100	100
0.3	No	0	0	0
	Yes	100	100	100
2	No	40 *	50 *	37.5 *
	Yes	60	50	62.5
<b>Startle reaction</b>				
Control	Yes	100	100	100
	No	0	0	0
0.005	Yes	70	100	100
	No	30	0	0
0.3	Yes	100	91.7	100
	No	0	8.3	0
2	Yes	30 *	10 *	37.5 *
	No	70	90	62.5

		<b>Reaction-</b>		
		<b>rate</b>		
Control	No reaction	0	0	0
	Tail suspension	25	8.3	8.3
	Hind legs	75	91.7	91.7
	Tail and legs	0	0	0
	No reaction	18.2	0	0
0.005	Tail suspension	18.2	18.2	0
	Hind legs	54.5	81.8	100
	Tail and legs	9.1	0	0
	No reaction	0	0	0
0.3	Tail suspension	58.3	0	16.7
	Hind legs	41.7	100	83.3
	Tail and legs	0	0	0
	No reaction	0	0	0

2	No reaction	27.8	40	33.3
	Tail suspension	36.4	10	11.1
	Hind legs	36.7	50 *	55.6 *
	Tail and legs	0	0	0

Statistical significance: \* $p < 0.05$  (compared to control values)