Table 1. Irwin test methodology and and scores.

Physical factors and gross appearance				
Coat color	A= Albino, Ag=Agouti, Bl=Black			
Body weight	Animal weight (g) before the test			
Presence of whiskers	0 = None; 1 = A few; 2 = Most, but not a full set; 3 = A full set			
Appearance of fur	0 = Ungroomed and disheveled; 1 = Somewhat disheveled; 2 = Well-groomed (normal)			
Piloerection	0 = None; 1 = Most hairs standing on end			
Patches of missing fur on face	0 = None; 1 = Some; 2 = Extensive			
Patches of missing fur on body	0 = None; 1 = Some; 2 = Extensive			
Wounds	0 = None; 1 = Signs of previous wounding; 2 = Slight wounds present; 3 = Moderate wounds present; 4 = Extensive			
	wounds present			
Observation of behavior in a novel environme	nt			
Transfer behavior	0 = Coma; 1 = Prolonged freeze (>10 sec.), then slight movement; 2 = Extended freeze, then moderate movement; 3			
	= Brief freeze (a few seconds), then active movement; 4 = Momentary freeze, then swift movement; 5 = No freeze,			
	immediate movement; 6 = Extremely excited ("manic")			
Body position	0 = Completely flat (on stomach); 1 = Lying on side; 2 = Lying on back; 3 = Sitting or standing; 4 = Rearing on hind legs;			
	5 = Repeated vertical leaping			
Spontaneous activity	0 = None, resting; 1 = Casual scratch, groom, slow movement; 2 = Vigorous scratch, groom, moderate movement; 3 =			
	Vigorous, rapid/dart movement; 4 = Extremely vigorous, rapid/dart movement			
Respiration rate	0 = Gasping, irregular; 1 = Slow, shallow; 2 = Normal; 3 = Hyperventilation			
Tremor	0 = None; 1 = Mild; 2 = Marked			
Palpebral closure	0 = Eyes wide open; 1 = Eyes 1/2 closed; 2 = Eyes closed			
Piloerection	0 = None; 1 = Coat stood on end			
Gait	0 = Normal; 1 = Fluid but abnormal; 2 = Limited movement only; 3 = Incapacity			
Pelvic elevation	0 = Markedly flattened; 1 = Barely touches; 2 = Normal (3mm elevation); 3 = Elevated (more than 3 mm elevation)			
Tail elevation	0 = Dragging; 1 = Horizontally extended; 2 = Elevated (Straub tail)			
Urination	0 = None; 1 = Little; 2 = Moderate amount; 3 = Extensive			
Defecation	Count the number of fecal boli emitted during the 3-min. period			
Reflexes and reactions to simple stimuli				
Touch escape	0 = No response; 1 = Mild (escape response to firm stroke); 2 = Moderate (rapid response to light stroke); 3 =			
	Vigorous (escape response to approach)			
Positional passivity	0 = Struggles when restrained by tail; 1 = Struggles when restrained by neck (finger grip, not scruffed); 2 = Struggles			

	when held supine (on back); 3 = Struggles when restrained by hind legs; 4 = Does not struggle			
Trunk curl	0 = Absent; 1 = Present			
Reaching reflex	0 = None; 1 = Upon nose contact; 2 = Upon vibrasse contact; 3 = Before vibrasse contact (18mm); 4 = Early vigorous extension (25mm)			
Body tone	0 = Flaccid, no return of cavity to normal; 1 = Slight resistance; 2 = Extreme resistance, board like			
Measures recorded during supine restrai	int			
Plantar surface skin color	0 = Blanched; 1 = Pink; 2 = Bright, deep red flush			
Heart Rate	0 = Slow, bradycardia; 1 = Normal; 2 = Fast, tachycardia			
Limb Tone	0 = No resistance; 1 = Slight resistance; 2 = Moderate resistance; 3 = Marked resistance; 4 = Extreme resistance			
Abdominal Tone	0 = Flaccid, no return of cavity to normal; 1 = Slight resistance; 2 = Extreme resistance, board like			
Righting Reflex	0 = No impairment; 1-10 = Number of seconds required to right			
Air Righting Reflex	0 = No impairment; 1-10 = Number of seconds required to right			
Salivation	0 = None; 1 = Slight margin of sub-maxillary area; 2 = Wet zone entire sub-maxillary area			
Provoked Biting	0 = Absent; 1 = Present			
Motor coordination				
Grip strength	0 = None; 1 = Slight grip, semi-effective; 2 = Moderate grip, effective; 3 = Active grip, effective; 4 = Unusually effective			
Inverted screen (s)	0-60 = Number of seconds before falling			
Wire maneuver	0=Active grip with hindlegs; 1= Difficulty to grasp with handlegs; 2= Unable to grasp with handlegs; 3=Unable to lift			
	hindlegs, falls within second; 4= Falls immediately			
Wire Hand	0=Active grip with hindlegs; 1= Difficulty to grasp with handlegs; 2= Unable to grasp with handlegs; 3=Unable to lift			
	hindlegs, falls within second; 4= Falls immediately			
Pole climb	0= Climbs down within 30 sec; 1= Turns and climbd up the pole; 2= Turns but then freezes; 3= Does not move within			
	30 seconds or climbs but not off the pole; 4= Falls off.			

Table 2. Irwin test 1 hour after Guaiacol treatment.

Coat color			CONTROL	GUAIACOL 50mg/kg	GUAIACOL 100 mg/kg	GUAIACOL 200 mg/kg
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10	9 4	Coat color	Α	Α	Α	Α
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10	tors an arance	Body weight (g)	28,8 ± 0,66	33,83 ± 0,81	31,03 ± 0,45	32,1 ± 3,12
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10		Presence of whiskers	3 ± 0	3 ± 0	3 ± 0	3 ± 0
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10	fac	Appearance of fur	2 ± 0	2 ± 0	2 ± 0	2 ± 0
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10	ical Ss a	Patches of missing fur on face	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Transfer behavior 5±0 5±0 5±0 5±0 5±0 5±0 8ear August 15 doing 10 for 10	hys	Patches of missing fur on body	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Body position 3±0	<u> </u>	Wounds	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Defecation 5±1,73	=	Transfer behavior	5 ± 0	5 ± 0	5 ± 0	5 ± 0
Defecation 5±1,73	ove	Body position	3 ± 0	3 ± 0	3 ± 0	3 ± 0
Defecation 5±1,73	ē O	Spontaneous activity	2 ± 0	1,67 ± 0,58	1 ± 0	1,67 ± 0,58
Defecation 5±1,73	Ë	Respiration rate	2 ± 0	2 ± 0	2 ± 0	2 ± 0
Defecation 5±1,73	viol ent	Tremor	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Defecation 5±1,73	eha nm	Palpebral closure	0 ± 0	0 ± 0	0 ± 0	0,67 ± 0,58
Defecation 5±1,73	f b	Piloerection	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Defecation 5±1,73	n o env	Gait	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Defecation 5±1,73	atic	Pelvic elevation	2 ± 0	2 ± 0	2 ± 0	2 ± 0
Defecation 5±1,73	erv	Tail elevation	1 ± 0	1 ± 0	1 ± 0	0,67 ± 0,58
Defecation 5±1,73	sqc	Urination	0,67 ± 0,58	0,67 ± 0,58	0,67 ± 0,58	0,67 ± 0,58
Positional passivity		Defecation	5 ± 1,73	4 ± 1	1 ± 1	2,33 ± 0,58
Skin color	声。별	Touch escape	2 ± 0	2 ± 0	2,67 ± 0,58	2,33 ± 0,58
Skin color	s an ns t tim	Positional passivity	0,67 ± 0,58	0,33 ± 0,58	0,33 ± 0,58	0,33 ± 0,58
Skin color	exe tiol	Trunk curl	1 ± 0	0,67 ± 0,58	1 ± 0	1 ± 0
Skin color	tefle eac mp	Reaching reflex	3 ± 0	3 ± 0	3 ± 0	3 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0		Body tone	1 ± 0	1 ± 0	1 ± 0	1 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	Ë	Skin color	1 ± 0	1 ± 0	1 ± 0	1 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	ᇴ	Heart rate	1 ± 0	1 ± 0	1 ± 0	0,67 ± 0,58
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	ded	Limb tone	1 ± 0	1 ± 0	1 ± 0	1 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	orc	Abdominal tone	1 ± 0	1 ± 0	1 ± 0	1 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	ne i	Righting reflex	0,33 ± 0,58	0 ± 0	1,33 ± 0,58	0 ± 0
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	Measures supi	Air righting reflex	0,33 ± 0,58	0,33 ± 0,58	1,33 ± 0,58	0,33 ± 0,58
Grip strength 3 ± 0 Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0		Salivation	0 ± 0	0 ± 0	0 ± 0	0 ± 0
Wire maneuver 0 ± 0 1 ± 1 0.67 ± 0.58 1 ± 0 Wire hang 0 ± 0 0.67 ± 1.15 0.67 ± 0.58 1 ± 0 Inverted screen 60 ± 0 46.67 ± 23.09 60 ± 0 60 ± 0		Provoked biting	1 ± 0	0,67 ± 0,58	1 ± 0	1 ± 0
Wire maneuver 0 ± 0 1 ± 1 $0,67 \pm 0,58$ 1 ± 0 Wire hang 0 ± 0 $0,67 \pm 1,15$ $0,67 \pm 0,58$ 1 ± 0 Inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0 Pole climb $0 + 0$ $0 + 0$ $0 + 0$ $0 + 0$	£ . c	Grip strength	3 ± 0	3 ± 0	3 ± 0	3 ± 0
Wire hang 0 ± 0 0,67 ± 1,15 0,67 ± 0,58 1 ± 0 Inverted screen 60 ± 0 46,67 ± 23,09 60 ± 0 60 ± 0 Pole climb 0 ± 0 0 ± 0 0 ± 0	engl otor atio	Wire maneuver	0 ± 0	1 ± 1	0,67 ± 0,58	1 ± 0
Inverted screen 60 ± 0 $46,67 \pm 23,09$ 60 ± 0 60 ± 0	Grip stre and mo coordina	Wire hang	0 ± 0	0,67 ± 1,15	0,67 ± 0,58	1 ± 0
Pole climb 0+0 0+0 0+0		Inverted screen	60 ± 0	46,67 ± 23,09	60 ± 0	60 ± 0
1.0.0 0.1.1.0		Pole climb	0 ± 0	0 ± 0	0 ± 0	0 ± 0

Table 3. Irwin test 4 hours after Guaiacol treatment.

		GUAIACOL 50mg/kg	GUAIACOL 100 mg/kg	GUAIACOL 200 mg/kg
₽ .	Coat color	A	A	A
Physical factors and gross appearance	Body weight (g)	33,07 ± 0,68	30,63 ± 0,15	31,8 ± 3,21
tors ara	Presence of whiskers	3 ± 0	3 ± 0	3 ± 0
faci ppe	Appearance of fur	2 ± 0	2 ± 0	2 ± 0
ical Ss a	Patches of missing fur on face	0 ± 0	0 ± 0	0 ± 0
hysi gros	Patches of missing fur on body	0 ± 0	0 ± 0	0 ± 0
⊒ ∞	Wounds	0 ± 0	0 ± 0	0 ± 0
-	Transfer behavior	5 ± 0	4,67 ± 0,58	4,67 ± 0,58
ove	Body position	3 ± 0	3 ± 0	3 ± 0
a D	Spontaneous activity	1 ± 0	1 ± 0	1 ± 0
Ë	Respiration rate	2 ± 0	2 ± 0	2 ± 0
viol ent	Tremor	0 ± 0	0 ± 0	0 ± 0
n of behavio environment	Palpebral closure	0 ± 0	0,33 ± 0,58	0 ± 0
f be	Piloerection	0 ± 0	0 ± 0	0 ± 0
n o en	Gait	0 ± 0	0 ± 0	0 ± 0
atic	Pelvic elevation	2 ± 0	2 ± 0	0,67 ± 1,15
erv	Tail elevation	1 ± 0	0,67 ± 0,58	1 ± 0
Observation of behavior in a novel environment	Urination	0,33 ± 0,58	0,33 ± 0,58	0 ± 0
J	Defecation	3 ± 2	2,33 ± 3,21	1,33 ± 1,53
ᇎᇰᇴ	Touch escape	2 ± 0	2,33 ± 0,58	2,67 ± 0,58
s ar ns t tim	Positional passivity	0,33 ± 0,58	0 ± 0	$0,33 \pm 0,58$
exe tion le s	Trunk curl	1 ± 0	0,67 ± 0,58	1 ± 0
Reflexes and reactions to simple stimuli	Reaching reflex	3 ± 0	3 ± 0	3 ± 0
	Body tone	1 ± 0	1 ± 0	1 ± 0
ing	Skin color	1 ± 0	1 ± 0	1 ± 0
g t	Heart rate	1 ± 0	1 ± 0	1 ± 0
ded rain	Limb tone	1 ± 0	1 ± 0	1 ± 0
corc	Abdominal tone	1 ± 0	1 ± 0	1 ± 0
ne i	Righting reflex	0,67 ± 0,58	1 ± 0	0,33 ± 0,58
Measures recorded during supine restraint	Air righting reflex	0 ± 0	0 ± 0	0 ± 0
	Salivation	0 ± 0	0 ± 0	0 ± 0
	Provoked biting	0,67 ± 0,58	1 ± 0	0,67 ± 0,58
ج. ₋ د	Grip strength	3 ± 0	3 ± 0	3 ± 0
engi otor atio	Wire maneuver	0,67 ± 0,58	0 ± 0	0 ± 0
Grip strength and motor coordination	Wire hang	0,67 ± 0,58	0 ± 0	0 ± 0
	Inverted screen	60 ± 0	60 ± 0	60 ± 0
ტ ~ გ	Pole climb	0 ± 0	0 ± 0	0 ± 0