

## LONG EVANS Rat

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Origin: CSAL (Orléans, provenant de la Rockland Farm) - 1966

Strain name: RjOrl:LE

Type : Outbred rat

Colour and related genotype: Black hooded rat

Breeding: Animal with good reproductive performances but not very docile

## Detailed specifications

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### Main application and research fields

- Metabolic research
- Behaviour
- Toxicology

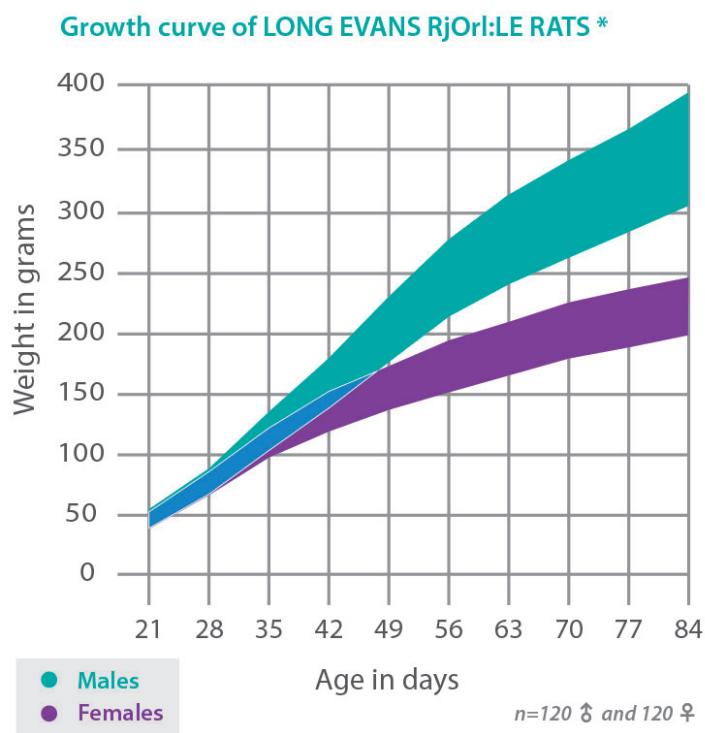
- Ageing

## Description of our model

This model was developed by Dr Long and Dr Evans in 1915. The LONG EVANS rat is the result of a cross between a female albino from the WISTAR Institute and a wild male (*Rattus norvegicus*) captured near Berkeley and offspring selection.

The LONG EVANS rat is small and resistant to oncogenesis. This strain is widely used in behavioral, learning, ageing (visual acuity less affected than that of albino strains), addiction – especially to alcohol – studies.

## Growth curve



## Reproduction data

Monogamous mating according Robertson system

Mâle	Femelle
Litter size at birth	10,39
Weaning %	92,4
Productivity index	2,66

	<b>Mâle</b>	<b>Femelle</b>
Sterility %	2	
Gestation time		Entre 20 et 23 jours

JANVIER LABS 2011 Data, for an indicative basis

## Biochemical and hematological parameters

### Hematological parameters\* of 10-week old LONG EVANS RjOrl:LE rats

<b>Parameters</b>	<b>Male</b>	<b>Female</b>
Red blood cells (10 <sup>12</sup> /l)	8,2 ± 0,7	8,1 ± 0,2
Hematocrit (l/l)	0,52 ± 0,05	0,48 ± 0,01
Mean corpuscular volume (fl)	63 ± 1	60 ± 1
Mean corpuscular rate (pg)	18,8 ± 0,4	18,8 ± 0,4
Hemoglobin concentration (g/dl)	30 ± 1	31 ± 1
Blood platelets (10 <sup>9</sup> /l)	716 ± 203	688 ± 141
Leukocytes (10 <sup>9</sup> /l)	8,7 ± 1,8	6,9 ± 1,0
Neutrophils (10 <sup>9</sup> /l)	1,32 ± 0,57	0,87 ± 0,25
Lymphocytes (10 <sup>9</sup> /l)	6,80 ± 1,64	5,49 ± 0,88
Eosinophils (10 <sup>9</sup> /l)	0,19 ± 0,05	0,18 ± 0,06
Monocytes (10 <sup>9</sup> /l)	0,20 ± 0,07	0,15 ± 0,04
Basophils (10 <sup>9</sup> /l)	0,09 ± 0,02	0,09 ± 0,04

### Biochemical blood parameters\* of 10-week old LONG EVANS RjOrl:LE rats

<b>Parameters</b>	<b>Male</b>	<b>Female</b>
Glucose (g/l)	2,9 ± 0,7	2,2 ± 0,2
Urea (g/l)	0,5 ± 0,1	0,4 ± 0,1
AST (ASAT) (UI/l)	129 ± 25	95 ± 14
ALT (ALAT) (UI/l)	67 ± 9	58 ± 10
Alkaline phosphatase (UI/l)	309 ± 26	201 ± 20
Cholesterolaemia (g/l)	0,8 ± 0,1	0,6 ± 0,1
Triglycerides (g/l)	1,5 ± 0,4	0,9 ± 0,4

Parameters	Male	Female
Creatinine (mg/l)	5,1 ± 0,3	5,0 ± 0,0
Monitoring reports		

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