

# GUINEA PIGS

<b>Care and Feeding</b>							
<b>Breeding/Lactation</b>	<b>Number of Adults</b> 1 male 3 females	<b>Number of Young</b> 6-8	<b>Cage Dimensions*</b>		<b>Length</b> 75 cm	<b>Width</b> 60 cm	<b>Height</b> 30 cm
<b>Growing</b>	12			75 cm	60 cm	30 cm	
<b>Experimental</b>	2		Variable				
<b>Feeding Recommendations</b>	<b>Daily Feed Usage</b>		<b>Water Requirement</b>		<b>Begin Dry Food Consumption</b>		
	Adult male	35 gm	Ad libitum		4-5 days		
	Pregnant female	35 gm					
<b>Environmental Data</b>	<b>Room Temp.</b> 20-25 °C	<b>Humidity</b> 45-55%	<b>Light</b> 10-12 hrs./day	<b>Litter Material</b> Shredded beet pulp, coarse shavings, or commercial bedding			
<b>Biological Values</b>							
<b>Blood Chemical Composition</b>	<b>Water</b> 93-95 gm/100ml	<b>Calcium</b> 5.3 mEq/L	<b>Sodium</b> 145 mEq/L	<b>Chloride</b> 105 mEq/L	<b>Phosphorus</b> 5.3 mg/100ml	<b>Potassium</b> 7.4 mEq/L	
Values are for plasma, except where noted	<b>Magnesium</b> 2.3 mg/100ml	<b>Cholesterol</b> 21-43 mg/100ml	<b>Glucose</b> 96 mg/100ml (whole blood)	<b>Serum Protein</b> 5.4 gm/100ml	<b>Albumin</b> 3.2 gm/100ml	<b>Globulin</b> 2.2 gm/100ml	
<b>Oxygen Consumption and Body Temperature</b>	<b>Observed Weight</b> 460 gm	<b>Temperature</b> 38.6 °C	<b>Oxygen Consumption</b> 0.76 mlO <sub>2</sub> /gm/hr	<b>Breathing Rate</b> 90/minute (69-104)	<b>Heart Rate</b> 280/minute (260-400)		
<b>Hematological Values</b>	<b>Whole Blood Volume (T-1824 dye)</b> 75 ml/kg	<b>Clotting Time</b> —	<b>RBC Life Span</b> —	<b>RBC Diameter</b> 7.1 microns	<b>RBC Rate of Sedimentation</b> 0.5-1.5 mm/hr		
	<b>Blood pH</b> 7.35	<b>RBC</b> 4.5-7.0 10 <sup>6</sup> /mm <sup>3</sup>	<b>Hematocrit</b> 42 ml/100ml	<b>Platelets</b> 525-900 10 <sup>3</sup> /mm <sup>3</sup>	<b>Hb</b> 12.35 gm/100ml		
<b>Total and Differential White Blood Cell Counts</b>	<b>Leucocytes</b> 10.0 10 <sup>3</sup> /mm <sup>3</sup>	<b>Neutros</b> 4.2 10 <sup>3</sup> /mm <sup>3</sup>	<b>Eosinos</b> 0.4 10 <sup>3</sup> /mm <sup>3</sup>	<b>Basos</b> 0.07 10 <sup>3</sup> /mm <sup>3</sup>	<b>Lymphos</b> 4.9 10 <sup>3</sup> /mm <sup>3</sup>	<b>Monos</b> 0.43 10 <sup>3</sup> /mm <sup>3</sup>	
<b>Life Cycle Information</b>							
	<b>Weight Adult Male</b> 1000-1200 gm	<b>Weight Adult Female</b> 850-900 gm	<b>Weight at Birth</b> 100 gm	<b>Breeding Age Male</b> 3-5 months 500 gm	<b>Breeding Age Female</b> 3-5 months 500 gm	<b>Estrus Cycle</b> Post-partum or 16-18 days	
	<b>Gestation</b> 59-67 days 63 days avg.	<b>Weaning Age</b> 10 days 250 gm	<b>Litter Size</b> 1-6 3-4 avg.	<b>Rebreed After Parturition</b> Immediately	<b>Breeding Life Male</b> 5 years or longer	<b>Breeding Life Female</b> 4-5 years	
	<b>Mating Data:</b> Colony: 1 male, 3-10 females						

\* Refer to the "Guide for the Care and use of Laboratory Animals" — NIH Publication No. 85-23, Revised 1985.

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