R A T S

Care and Feeding						
Breeding/Lactation	Number of Adults I female	Number of Young		Cage Dimensio Length 30 cm	ns* Width 20 cm	Height 20 cm
Growing	10-15	Ŭ		60 cm	50 cm	25 cm
Experimental	Varies according to	o experiment		Variable	30 cm	23 (111
Feeding Recommendations	Daily Feed Usage Adult Male Adult Female Pregnant &	Fisher Ad libitum 12-15 gm 12-15 gm	Larger Strains** Ad libitum 20-35 gm 15-25 gm	Water Requirer	ment	Begin Dry Food Consumption 12 days
	Lactating Female Growing Male Growing Female	30-40 gm 12-15 gm 12-15 gm	30-55 gm 15-30 gm 14-22 gm			
Environmental Data	Room Temp. 21-27 °C	Humidity 45-55%	Light 12 hrs/day	Litter Material Shavings, beet pulp, corn cob, commercial bedding		
Biological Values						
Blood Chemical Composition	Water 92-94 gm/100ml	Calcium 6.2 mEq/L	Sodium 144 mEq/L	Chloride 110 mEq/L	Phosphorus 5.9 mg/100ml	Potassium 5.9 mEq/L
Values are for plasma, except where noted	Magnesium 1.6 mg/100ml	Cholesterol 28-76 mg/100ml	Glucose 56-76 mg/100ml (whole blood)	Serum Protein 6.3 gm/100ml	Albumin 3.4-4.3 gm/100ml	Globulin 1.8-2.5 gm/100ml
Oxygen Consumption and Body Temperature	Observed Weight 250 gm	Temperature 38.2 °C	Oxygen Consumption 0.88 mIO ₂ /gm/hr	Breathing Rate 94/minute (75-115)	Heart Rate Adult 382/minute (261-600)	Heart Rate Newborn 161/minute (81-241)
Hematological Values	Whole Blood Volume	Clotting Time	RBC Life Span	RBC Diameter	RBC Rate of Sedimentation	
	(T-1824 dye) 58 ml/kg	20 sec.	45-68 days	6.8 microns	0.7-1.8 mm/hr	
	Blood pH 7.35	RBC 7.2-9.6 10 ⁶ /mm ³	Hematocrit 46 ml/100ml	Platelets 706-796 10 ³ /mm ³	Hb 14.8 gm/100ml	
Total and Differential White Blood Cell Counts	Leucocytes 14.0 10³/mm³	Neutros 3.1 10³/mm³	Eosinos 0.3 10³/mm³	Basos 0.10 10 ³ /mm ³	Lymphos 10.2 10³/mm³	Monos 0.30 10³/mm³
Life Cycle						
Information	Weight Adult Male 300-400 gm	Weight Adult Female 250-300 gm	Weight at Birth 5-6 gm	Breeding Age Male 100 days 300 gm	Breeding Age Female 100 days 200 gm	Estrus Cycle 5 days
	Gestation	Weaning Age	Litter Size	Rebreed After	Breeding Life	Breeding Life
	20-22 days 21 days avg,	21 days 40-50 gm	8-12	Parturition Immediately	Male I year	Female I year
	Mating Data:	Pair or colony: I male, I0 females				

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

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^{**} Depends on Strain of rats. Some Investigators restrict the feed of rats derived from Sprague-Dawley Inc. Levels of 21-22 gr/day for male rats and 1647 gr/day for female rats are levels of feed restrictions frequently used.