LABORATORY SWINE

Care and Feeding							
Experimental Conditions	Space dimensions Refer to NCR guid	vary with each experir delines.*	ment according to ar	iimal size and managel	ment program.		
Feeding Recommendations	Daily Feed Usage Approx. 2-3% of body weight, but varies with phase of life cycle (see specific product for other details).			Water Requirement Ad libitum		Begin Dry Food Consumption 12-16 days	
							Environmental Data
Biological Values							
Blood Chemical Composition	Water 79.1 gm/100ml	Calcium 8-12 mg/100ml	Sodium 138-150 mEq/L	Chloride 100-105 mEq/L	Phosphorus 5-9 mEq/L	Potassium 5-7 mEq/L	
Values are for plasma, except where noted	Magnesium I-3 mg/100ml	Cholesterol 130-160 mg/100ml	Glucose 65-120 mg/100ml	Serum Protein 5-8 mg/100ml	Albumin 3-4.5 gm/100ml	Globulin 1.5-3.5 gm/100ml	
Vital Data	Temperature 39 °C	Breathing Rate 30 /minute	Heart Rate 145-175 /minute	Blood Pressure 130-145/105-110	Heat Rate		
Hematological Values	Whole Blood Volume (T-1824 dye) 67 mg/kg body weight	RBC Diameter 6.0 microns					
	Blood pH 7.4	RBC 6-8 10 ⁶ /mm ³	Hematocrit 39-46 gm/100ml	Platelets 250-500 10 ³ /mm ³	Hb 1.5- 5.5 gm/ 00ml		
Total and Differential White Blood Cell Counts	Leucocytes 4-18 0 ³ /mm ³	Neutros 22-40 %	Eosinos 0-6 %	Basos 0-2 %	Lymphos 50-70 %	Monos 0-5 %	
Life Cycle							
Information	Adult Weight	Weight	Breeding Age	Breeding Age	Estrus	Heat	
Mini-Pig	Male/Female 70 kg/70kg	at Birth 700 gm	Male 6-7 months	Female 6-7 months	Cycle 21 (18-24) days	Period 2-3 days	
Crossbred	200kg/200kg	1361 gm	7-8 months	7-8 months	21 (19-24) days	2-3 days 2-3 days	
	Gestation	Weaning Age	Offspring	Rebreed After Weaning	Breeding Life Male/Female		
Mini-Pig	II4 days	56 days	4-8	First or subsequent	Productive breeding life is about 3 years.		
Crossbred	114 days	28 days	9-11	estrus cycle	Crossbred strains will breed longer		
	Mating Data:	I/20 depending upon breeding management program					

^{*} Refer to the "Guide for the Care and Use of Laboratory Animals" — NIH Publication No. 85-23, Revised 1985 Prepared by the Institute of Laboratory Animal Resources, National Research Council, 2101 Constitution Avenue, N.W., Washington, DC 20418

Reference sources: Diseases of Swine, A. D. Leman, et. al., Iowa State University Press (1986). Miniature Swine, Charles River Digest 22, #3 (1983). D. E. Reese, et al., Am.J.Vet.Res. 45, 978 (1984). Blood and other Body Fluids, FASEB, 9650 Rockville Pike, Bethesda, MD 20814.



^{**} Biological Values are variable with no definitive data to declare differences among swine breeds. These values are presented as guidelines and subject to revision as information accumulates.