and Human Develop., College of Physicians and Surgeons, Columbia Univ., New York, NY) J. Nutr. 107, 1969-74 (1977). Adipose tissue is known to consist of at least two compartments, the adipocytes and the non-lipid filled cells. During nonellar and the college of Physicians and Surgeons. ing normal growth and development of the rat epididymal fat pad, these two compartments changed in different manners. From 12 to 35 days of age, the DNA contained in both compartments increased linearly, indicative of hyperplastic growth. From 35 to 70 days of age, the DNA in the non-lipid filled cells continued to increase linearly; DNA in the adipocyte fraction increased more slowly. From 70 to 182 days of age, DNA accretion continued in the non-lipid filled cells while remaining unchanged in adipocytes. From 35 to 70 days of age, an abrupt change in the rate of tissue lipid accumulation occurred, shown both by a tripling of fat cell size and a markedly increased slope in the accumulation of lipid per pad. These data confirm that adipose tissue growth proceeds as suggested by radioactive thymidine incorporation studies and further suggest that a critical period for the onset of lipid filling may begin around 35 days of age.

CHARACTERISTICS AND POSTNATAL DEVELOPMENT OF THE ACID LIPASE ACTIVITY OF THE RAT SMALL INTESTINE. P.M. Coates, S.A. Brown, J. Jumawan and O. Koldovsky (The Joseph Stokes Jr. Res. Inst., Univ. of Pennsylvania, Philadelphia, PA) Biochem. J. 166, 331-8 (1977). Acid lipase was identified in the rat small intestine by using esters of 4-methyl-umbelliferone as substrates. Maximum activity towards the oleate ester was found at pH 4.0. In adult animals, the

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activity of acid lipase exhibited both latency and sedimentability, indicating a lysosomal localization. The activity of acid lipase was practically the same along the height of the villus, thus paralleling the distribution of acid β -galactosidase. In adult rats, the activity of acid lipase in proximal (jejunum) and middle (mid-jejunum) sections of the small intestine was practically the same and exceeded the activity in the distal (ileum) section by a factor of 2. In suckling rats, the activity of the enzyme in the mid-jejunum exceeded that in the jejunum and ileum by 2.5- and 1.5-fold respectively. During postnatal development, the acid lipase activity of the mid-jejunum showed a peak between days 10 and 15, at which time it exceeded the adult mid-jejunum activity by 5-6-fold.

COMPOSITION OF CHOLESTEROL IN ARAUCANA AND COMMERCIAL EGGS. D.W. Peterson, A. Lilyblade, C.K. Clifford, R. Ernst,

Tall Oil Fatty Acid: & Statistic:

IN THOUSAND POUNDS	2% & (OVER ROSIN CONTENT	LESS THAN	2% ROSIN CONTENT		
	February	Percent change from January 1978	February	Percent change from January 1978		
Stock on Hend February 1, 1978	10,530	+ 11.6	7,468	- 9.8		
Production	14,348	- 5.0	16,094	+ 44.6		
Purchases & Receipts	D		D			
Disposition Domestic	11,113	+ 3.4	13,118	+ 23.7		
Export	4,857	+ 49.0	2,848	+ 112.9		
Total Disposition Net Disposition*	15,970 15,970	+ 14.0 + 14.0	15,966 15,966	‡ 33.7 ‡ 33.7		
Total Stock February 28, 1978	8,908	- 15.4	7,595	+ 1.7		

ACICL in thousand pounds



			POU	.00				
Month February '78 April 5, 1978	CODS ES (F)	3		<u> </u>	DISPOSITIO	N:	OSITION	CODS ES (F)
NUMBER OF MANUFACTURERS REPORTING 16	NO FINISHED GO	PRODUCTION	RECEIPTS (B)	Consumption	Domestic Shipments (D)	Shipment for Export (E	TOTAL DISP	N FINISHED G

Saturated A SP - Single Pressed; DP - Double Pressed; TP - Triple Pressed

	STEARIC ACID (40-50% Stearic Content) 111	8,884	8,980	1,222	3,340	SP 495 DP 3,006 TP 4,248	165	11,254	7,832
HYDROGENATED ANIMAL & VEGETABLE ACIDS	60 C maximum titer & minimum I.V. 5 (2a)	6,761	7,828			7,878		7,878	6,711
	57 C minimum titer & maxi- mum I.V. under 5 (2b)	5,465	16,466	1,887	6,689	11,787		18,476	5,342
	Minimum Stearic Content of 70% (2c)	2,111	2,631		715	1,805	22	2,542	2,200
	HIGH PALMITIC (Over 60% palmitic L.V. maximum 12I (3I	2,077	882		892	831	1	1,724	1,235
	HYDROGENATED FISH & MARINE MAMMAL fatty acids (4)	899	418		29	380	12	421	896
	LAURIC-TYPE ACIDS (I.V. minimum 5-Sapon val. minimum 245— including ecconut, palm kernel, babassul (5)	4,555	6,770	149	2,464	4,321	32	6,817	4,657
2 < 0 O	C ₁₀ or lower, including capric (6a)	427	1,630	10	104	1,532	36	1,672	395
FHACTION- ATED FATTY ACIDS	Lauric and/or myristic content of 55% or more (6b)	2,284	1,276	59	576	670	4	1,350	2,269
	TOTAL- SATURATED FATTY ACIDS	33,463	46,881	3,327	14,909	36,953	272	52,134	31,537

Unsaturated No - Not distilled: SD - Single distilled; MD - Multiple distilled

OLEIC ACID (red oil) (7)	10,884	11,428	~ - -	5,219	SD 3,985 MD 2,485	236	11,984	10,328
ANIMAL FATTY ACIDS other than oleic (I.V. 36 to 80) [8]	6,231*	13,317	449	3,578	11,305	1,072	15.955	4,042
VEGETABLE OR MARINE FATTY ACIDS (I.V. maximum 115) (9)	289	179			12		12	456
UNSATURATED FATTY ACIDS (1.V. 116 to 130) (10)	2,775	4,281	153	253	3,077	471	3,801	3,408
UNSATURATED FATTY ACIDS (I.V. over 130) (11)	3,136	1,626		(15)	1,377	10	1,372	3,390
TOTAL UNSATURATED FATTY ACIDS	23,315*	30,831	602	9,035	22,300	1,789	33,124	21,624
TOTAL ALL FATTY ACIDS SATURATED & UNSATURATED	56,778	77,712	3,929	23,944	59,253	2,061	85,258	53,161