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ABBREVIATIONS AND UNITS USED IN THE TABULATION OF
INDIVIDUAL VALUES

ABBREVIATIONS

CNP	:	2',3'-cyclic nucleotide 3'-phosphohydrolase
CPG	:	choline phosphoglycerides
Diacyl-GPE	:	Diacyl-glycerophosphorylethanolamine
EPG	:	ethanolamine phosphoglycerides
GM	:	gray matter
IPG	:	inositol phosphoglycerides
PCT	:	phosphocholine transferase
PET	:	phosphoethanolamine transferase
sp. cord	:	spinal cord
SM	:	sphingomyelin
SPG	:	s erine phosphoglycerides
WM	:	white matter

UNITS

All the lipid values are expressed as mg/g wet weight
except for gangliosides which are expressed as mcg/g wet weight.

Appendix - 1 : Individual data on lipid changes with age.

rat no.	body weight (g)	brain weight (g)	cholesterol		galactolipids		phospholipids	
			GM	WM	GM	WM	GM	WM
1	2	3	4	5	6	7	8	9
<u>2 weeks old</u>								
1	25.0	1.130	9.50	12.7	1.60	7.66	27.3	33.9
2	24.0	1.100	9.53	12.9	1.60	8.20	27.9	33.9
3	26.5	1.190	9.69	13.3	1.94	7.46	25.9	35.4
4	25.5	1.180	9.51	12.5	1.57	7.38	26.5	31.9
5	25.5	1.140	9.32	11.4	1.76	7.12	27.3	31.2
6	24.5	1.155	9.15	12.4	-	7.50	26.3	31.8
7	25.0	1.120	9.28	11.6	1.81	7.40	27.8	29.5
<u>3 weeks old</u>								
8	46	1.452	15.3	27.1	4.17	17.3	28.8	41.2
9	44	1.415	13.5	25.3	3.60	17.2	31.1	45.0
10	40	1.400	14.8	27.2	3.66	17.2	32.5	-
11	56	1.420	15.0	28.6	4.82	-	29.9	-
12	52	1.500	14.0	26.1	4.58	16.4	30.2	42.8
13	44	1.470	15.2	25.2	3.76	16.9	31.1	42.8

contd...

Appendix - 1 : contd.

1	2	3	4	5	6	7	8	9
14	46	1.370	14.1	26.4	4.77	15.8	27.8	42.1
15	45	1.470	14.9	24.7	5.07	17.1	32.5	44.5
16	55	1.430	14.0	24.6	3.77	-	30.3	38.4
<u>4 weeks old</u>								
17	73	1.480	15.3	26.3	3.68	23.7	39.8	53.3
18	69	1.505	-	-	-	22.8	-	-
19	72	1.500	15.9	26.3	4.73	20.0	41.4	51.3
20	72	1.495	15.2	26.2	4.44	22.8	42.1	55.3
21	74	1.548	13.6	-	-	25.3	-	-
22	70	1.480	14.9	25.9	4.40	24.9	43.3	55.7
23	72	1.505	15.0	26.4	5.00	23.7	41.8	53.4
24	74	1.500	-	-	-	23.2	-	-
25	73	1.483	13.3	-	-	22.5	-	-
<u>6 weeks old</u>								
26	104	1.582	13.4	29.8	4.78	29.0	41.2	55.3
27	110	1.622	-	-	-	-	40.3	58.0

contd...33

Appendix - 1 : contd.

1	2	3	4	5	6	7	8	9
28	93	1.685	14.9	26.6	4.90	26.6	41.3	56.2
29	107	1.623	13.6	25.5	4.95	-	40.6	54.0
30	102	1.660	14.8	28.2	4.20	24.8	39.7	56.8
31	112	1.640	13.4	24.6	4.81	-	39.8	57.3
32	104	1.716	14.3	29.8	4.10	29.0	40.5	55.5
33	103	1.465	15.4	26.8	3.83	25.8	39.1	60.7
9 weeks old								
12 weeks old								
34	261	1.763	15.8	-	5.04	29.5	38.5	65.0
35	286	1.847	13.8	-	4.35	29.0	38.0	57.8
36	223	1.742	13.5	29.0	4.51	30.7	39.5	55.8
37	248	1.837	13.8	32.2	4.49	29.9	37.7	55.0
38	261	1.650	14.3	26.7	-	-	-	61.6
39	227	1.773	15.2	25.8	5.07	30.2	39.9	62.3
40	180	1.750	-	-	-	-	38.2	-
41	177	1.770	-	-	-	-	41.4	-
42	180	17.80	-	-	-	-	39.8	-

Appendix - 1 : contd.

	1	2	3	4	5	6	7	8	9
<u>20 weeks old</u>									
43	286	1.972	14.6	30.0	4.67	29.0	-	60.0	
44	303	2.010	13.6	27.6	4.25	27.2	39.5	60.0	
45	315	1.850	15.8	-	4.89	-	-	-	
46	271	1.905	13.8	30.3	3.87	30.9	39.5	-	
47	277	1.800	13.6	-	5.06	-	37.8	-	
48	276	1.915	13.3	29.0	4.52	29.0	44.5	70.0	
49	300	1.925	15.1	30.0	4.12	30.9	42.0	60.0	
50	278	1.810	15.6	-	4.91	-	37.4	-	
51	280	1.870	-	33.8	-	33.8	37.5	65.0	
<u>52 weeks old</u>									
52	525	2.020	15.0	32.7	6.00	30.0	42.6	69.2	
53	480	2.020	14.2	29.5	6.42	31.6	38.5	63.6	
54	560	2.110	14.8	35.4	5.66	34.2	44.1	75.6	
55	540	2.260	13.8	32.9	6.07	35.8	42.1	65.6	
56	455	1.980	13.7	36.9	6.71	34.4	40.5	73.7	
57	495	2.150	14.3	32.5	6.56	34.6	38.4	74.5	
58	525	2.080	14.3	34.8	6.44	36.5	39.9	74.2	
59	497	2.010	14.8	32.6	5.83	31.8	43.4	71.9	

Appendix - 1(a) : Individual data on changes in different phospholipids with age.

rat no.	EPG		CPG		SM		SPG + IPG	
	GM	WM	GM	WM	GM	WM	GM	WM
1	2	3	4	5	6	7	8	9
<u>2 weeks old</u>								
1	8.25	11.0	11.8	12.5	0.85	2.50	5.43	6.75
2	9.00	9.75	12.0	12.0	0.73	1.65	4.43	5.55
3	8.25	8.50	11.9	11.0	0.60	1.65	4.05	4.83
4	8.00	10.8	11.5	15.0	0.61	2.03	3.66	6.15
5	8.25	9.50	10.5	11.0	0.60	1.85	3.80	6.58
6	10.0	10.9	11.0	13.1	0.80	1.60	4.33	5.50
7	9.55	11.0	11.1	12.6	0.80	2.00	3.52	7.50
<u>3 weeks old</u>								
8	9.98	16.8	13.3	14.5	0.84	2.10	4.95	6.31
9	8.88	16.4	11.9	15.7	1.34	2.77	3.70	7.55
10	9.45	16.5	12.3	13.7	1.04	1.90	3.99	6.93
11	9.45	16.8	14.5	16.6	0.95	2.19	5.40	8.15
12	9.50	14.7	13.2	14.4	1.37	2.97	3.73	6.93
13	10.5	15.7	14.5	13.0	1.11	-	5.23	-

contd...

Appendix - 1(a) : contd.

1	2	3	4	5	6	7	8	9
14	-	14.3	-	13.5	0.96	2.21	5.73	-
15	-	17.9	-	-	1.20	-	-	-
16	-	15.8	-	-	-	-	-	-
<u>4 weeks old</u>								
17	15.5	21.5	15.8	17.7	1.03	2.69	5.80	8.87
18	14.0	22.1	17.4	16.8	1.35	2.37	4.60	7.92
19	14.2	23.5	17.7	20.4	1.00	-	5.11	6.80
20	15.0	21.6	16.2	-	1.60	2.47	6.90	9.70
21	15.9	-	16.1	16.7	-	2.00	5.80	7.82
22	14.6	22.3	15.8	15.7	1.19	2.92	5.50	-
23	15.4	-	15.7	-	-	-	-	-
24	-	-	16.8	-	-	-	-	-
<u>6 weeks old</u>								
25	13.0	20.5	14.6	15.6	2.13	2.95	6.05	9.30
26	13.3	21.2	14.7	15.9	-	3.65	6.79	9.30
27	13.7	22.4	15.6	16.9	2.16	3.75	-	9.60
28	-	23.4	15.6	17.0	-	3.97	7.06	-

contd...

Appendix - 1(a) : contd.

1	2	3	4	5	6	7	8	9
30	15.9	23.9	16.2	17.9	2.30	4.10	7.30	9.90
31	16.2	24.2	16.2	18.2	-	4.20	7.60	10.0
32	16.5	24.5	18.7	18.5	2.70	5.40	8.10	-
33	16.0	25.2	17.4	18.3	-	5.32	8.02	10.5
DATA GIVEN IN EXPERIMENT - II								
<u>9 weeks old</u>								
<u>12 weeks old</u>								
34	14.5	27.8	14.3	17.7	2.20	3.50	7.50	13.0
35	14.0	28.5	17.8	17.7	2.05	4.50	6.25	10.0
36	14.0	21.5	14.0	16.6	2.70	3.75	8.25	12.8
37	13.7	24.8	15.0	17.5	2.65	4.50	8.50	11.5
38	13.9	20.5	14.8	16.8	2.40	4.75	6.50	10.4
39	-	-	15.1	19.0	2.55	-	6.53	-
<u>20 weeks old</u>								
43	13.4	26.4	14.9	16.3	-	3.70	7.20	12.5
44	15.3	22.2	16.5	15.3	2.10	3.80	6.50	12.3
45	13.0	27.8	15.5	17.0	1.80	3.80	6.50	12.2

contd... 238

Appendix - 1(a) : contd.

1	2	3	4	5	6	7	8	9
46	13.5	26.8	15.5	19.9	2.60	-	8.30	-
47	14.9	22.4	17.0	18.8	2.80	4.30	-	10.8
48	13.5	26.3	15.6	16.3	2.20	-	6.60	-
<u>52 weeks old</u>								
52	15.3	-	15.5	18.7	2.40	4.38	6.62	14.9
53	12.9	24.8	13.6	16.5	2.08	4.95	7.38	16.1
54	13.3	26.8	15.1	17.2	2.28	4.80	6.48	15.6
55	14.5	24.6	15.9	18.9	2.35	5.40	7.50	14.1
56	15.0	23.3	16.8	17.1	2.40 2.41	5.70 5.71	7.92 7.93	15.7
57	16.0	25.6	14.3	16.8	2.13	5.20	7.46	15.2
58	14.0	22.0	15.6	16.0	2.60	5.20	7.80	14.8
59	-	27.5	15.3	19.3	3.05	4.65	-	10.9

Appendix - 1(b) : Individual data on lipid changes in whole brain with age.

rat no.	body weight (g)	brain weight (g)	cholesterol	galacto-lipids	phospho-lipids	EPG	CPG ₀	SM	SPG+IPG
1	2	3	4	5	6	7	8	9	10
<u>2 weeks old</u>									
60	32	1.260	11.2	2.47	28.1	9.2	11.2	1.37	4.97
61	30	1.265	12.1	2.65	28.6	9.4	12.2	1.54	4.93
62	31	1.235	11.2	2.50	28.6	10.1	13.1	-	-
63	33	1.195	11.3	2.47	28.4	9.4	12.5	1.09	4.89
64	31	1.185	10.2	2.60	27.5	8.3	10.4	1.21	4.41
<u>3 weeks old</u>									
DATA GIVEN IN EXPERIMENT - III									
<u>6 weeks old</u>									
65	133	1.500	17.3	10.5	46.2	16.0	15.3	2.57	6.40
66	136	1.520	16.2	10.7	47.0	16.9	17.3	2.28	7.45
66	126	1.475	17.2	13.1	47.4	18.8	17.8	2.39	8.00
<u>9 weeks old</u>									
67	180	1.750	18.6	12.7	45.9	18.4	17.8	3.13	7.69
68	165	1.620	18.0	13.0	46.0	19.3	18.3	-	-

contd...

Appendix - B(b) : contd.

1	2	3	4	5	6	7	8	9	10
69	178	1.755	-	13.5	48.4	19.0	17.7	2.38	7.59
70	181	1.855	17.6	12.7	49.9	17.5	17.7	2.32	8.07
71	174	1.770	17.8	-	48.6	19.5	18.9	2.02	7.63
72	606	2.012	23.5	21.4	56.4	22.7	18.0	4.61	9.89
73	540	1.988	22.8	19.1	53.6	18.9	20.8	4.72	8.82
74	575	2.110	22.0	21.0	53.4	19.3	19.0	4.38	11.1
75	580	2.100	22.2	22.4	55.5	18.2	19.0	4.94	10.8

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