


## Comparative Study of Identical Purified-Ingredient Diets from Two Different Manufacturers

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Exp 086-03 pre-bleed, after 3 hour fast

Metabolic Summary of Diet Comparison in 129S1/SvlmJ male mice, fed for 5-6 weeks

 = Insufficient Data

**Materials and Methods:** 70 129S1/SvlmJ male mice were fed for 4-5 weeks on high-fat diet #D020031501 manufactured by Research Diets, Inc. (RDI). Another 70 129S1/SvlmJ male mice were fed the *identical* high-fat diet made from the same formula by TestDiet division of LabDiet, a Purina Mills company (TestDiet product #1810038). 20 129S1/SvlmJ male mice were fed a standard (lean) grain-based rodent food as a control.

### Conclusion:

"The attached data show that under these conditions, both the Purina [TestDiet®] and RD [Research Diet] versions of the [experimental] diet induced similar changes in the metabolic profile of mice compared to lean chow fed controls.










Thus these data suggest that the Purina [TestDiet®] and RD [Research Diet] [purified diets] are essentially equivalent."

Research Diets, Inc. (RDI)  
Product #D02031501

TestDiet div. of LabDiet (a Purina Mills company) Product #1810038

Standard grain-based lean rodent food

*Identical diets produced from the same purified ingredient formula*

An#	Insulin ng/mL	Leptin ng/mL	GLU mg/dL	CHOL mg/dL	TRIG mg/dL	HDL mg/dL	NEFA mM	Weight g	An#	Insulin ng/mL	Leptin ng/mL	GLU mg/dL	CHOL mg/dL	TRIG mg/dL	HDL mg/dL	NEFA mM	Weight g	An#	Insulin ng/mL	Leptin ng/mL	GLU mg/dL	CHOL mg/dL	TRIG mg/dL	HDL mg/dL	NEFA mM	Weight g
1	1.36	3.97	185	230	100	205	0.90	25.0	71	0.88	5.71	145	205	90	180	0.80	23.6	141	0.32	6.43	125	155	80	155	0.75	21.3
2	0.70	1.10	170	190	80	170	1.35	24.9	72	0.61	4.24	140	190	75	175	0.75	23.9	142	0.72	7.13	110	135	85	120	0.70	21.0
3	0.86	5.85	145	230	120	200	0.75	25.4	73		2.40	120	190	80	165	0.90	21.8	143	0.53	8.37	145	180	95	170	0.80	22.5
4	0.92	2.65	125	185	100	165	1.30	25.7	74	1.64	2.40	170	215	85	185	1.00	24.1	144	1.14	9.35	165	170	85	165	0.90	22.0
5	0.66	1.70	190	180	70	155	0.50	24.4	75	0.45	1.87	130	160	80	145	0.90	21.3	145	0.34	1.31	150	175	65	165	1.20	22.1
6		1.42	180	185	85	165	0.05	22.6	76	0.93	1.29	135	170	75	145	0.95	22.3	146	0.65	2.53	145	170	145	150	1.00	21.6
7	0.68	1.43	110	120	55	110	0.75	22.1	77		1.15	150	195	95	180	0.95	23.8	147		1.30	135	150	65	140	1.00	24.9
8	0.91	1.97	170	200	70	175	0.85	24.3	78		7.69	160	225	150	205	1.15	29.5	148	0.25	1.56	130	165	110	130	1.30	20.9
9	0.72	1.53	110	115	45	100	0.55	20.1	79		2.93	160	215	100	165	1.20	22.6	149	0.37	0.90	130	125	70	115	0.75	21.3
10		2.53	165	205	95	185	1.05	22.2	80		1.34	155	155	70	145	0.90	22.2	150	0.22	1.66	155	150	100	140	1.00	21.8
11		2.55	160	205	80	185	0.85	22.1	81	1.63	2.98	135	185	75	165	0.75	23.2	151	0.46	1.45	175	170	90	155	0.85	22.7



50	1.74	11.2	200	215	130	210	0.90	27.1	120	0.51	9.48	185	165	70	150	0.75	26.4
51	0.67	14.92	165	200	90	190	0.70	21.6	121	0.44	8.29	150	185	80	170	0.75	24.2
52	0.35	3.69	115	140	70	120	0.90	22.6	122	0.84	20.73	170	220	110	210	0.75	24.1
53	0.77	9.63	135	190	80	165	0.80	23.5	123		13.62	180	250	120	225	1.10	26.9
54	1.13	24.73	155	165	105	155	0.65	27.9	124	0.40	9.34	155	210	130	190	0.90	23.5
55	0.81	14.62	140	200	140	165	0.80	23.8	125	0.76	9.68	135	160	105	145	0.85	25.0
56	0.84	8.57	145	180	100	165	0.70	20.3	126	0.85	14.13	135	155	90	145	0.60	26.8
57	0.87	15.35	150	210	120	185	0.80	22.8	127	1.07	15.85	120	210	105	220	0.75	29.2
58	1.02	14.58	140	170	110	155	0.75	25.2	128	0.61	6.17	115	130	70	120	0.55	27.1
59	1.04	7.25	160	200	105	180	0.90	23.6	129	1.03	5.84	150	160	150	145	0.85	27.1
60	0.22	9.54	175	205	125	175	0.80	24.2	130	0.30	10.41	160	195	75	180	0.75	26.2
61	1.03	16.43	170	215	75	190	0.70	26.9	131	0.85	12.64	130	145	90	140	0.55	27.6
62		12.57	165	225	80	200	0.55	24.1	132	0.88	11.23	125	150	80	135	0.55	25.9
63	0.53	8.37	145	190	105	170	1.20	27.0	133	0.62	27.43	285	385	235	340	1.45	28.1
64	1.59	13.8	190	225	260	200	1.05	28.0	134	0.84	13.76	180	205	115	195	0.75	26.6
65	0.51	5.49	160	195	70	175	0.70	24.8	135		5.12	150	215	125	195	0.85	25.3
66	0.29	4.79	125	175	70	160	0.65	22.6	136		17.14	175	225	160	215	0.85	23.2
67		12.62	175	210	125	190	0.80	22.9	137	1.06	17.90	125	155	70	145	0.60	25.6
68	0.63	17.08	130	190	100	170	0.75	25.8	138	0.36	17.14	160	215	105	195	0.85	28.7
69	0.96	12.23	145	175	110	165	0.65	24.0	139		9.56	135	170	80	165	0.55	26.4
70	0.39	3.89	135	150	65	130	0.70	21.1	140	0.78	6.18	105	145	175	125	1.15	26.3

<b>MEAN</b>	<b>0.83</b>	<b>7.64</b>	<b>154</b>	<b>188</b>	<b>94</b>	<b>169</b>	<b>0.81</b>	<b>24.1</b>
<b>SEM</b>	<b>0.05</b>	<b>0.71</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>0.02</b>	<b>0.3</b>
<b>N</b>	<b>53</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>

Research Diets, Inc. (RDI) Product #D02031501

<b>MEAN</b>	<b>0.77</b>	<b>7.56</b>	<b>150</b>	<b>194</b>	<b>102</b>	<b>176</b>	<b>0.84</b>	<b>24.7</b>
<b>SEM</b>	<b>0.05</b>	<b>0.75</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>0.02</b>	<b>0.3</b>
<b>N</b>	<b>53</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>70</b>

TestDiet div. of LabDiet (a Purina Mills company)  
Product #1810038

<b>MEAN</b>	<b>0.46</b>	<b>4.16</b>	<b>141</b>	<b>154</b>	<b>86</b>	<b>140</b>	<b>0.93</b>	<b>22.2</b>
<b>SEM</b>	<b>0.06</b>	<b>0.65</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>0.06</b>	<b>0.3</b>
<b>N</b>	<b>16</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>

Standard grain-based lean rodent food