

## **Kodo millet whole grain and bran supplementation prevents high-fat diet induced derangements in lipid profile, inflammatory status and gut bacteria in mice**

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Diet Ingredient	Normal diet <sup>a</sup>	High-Fat diet <sup>b</sup>	High-Fat Diet-WG <sup>c</sup>		High-Fat Diet-BR <sup>c</sup>		Normal Diet + 20% KM	
			10%	20%	10%	20%	Whole grain	Bran
Sucrose	33.13	20.14	14.52	11.21	14.52	11.21	26.50	26.50
Dextrin	29.86	8.48	8.06	5.08	8.06	5.08	23.88	23.88
Casein	18.96	23.31	21.40	19.50	21.40	19.50	15.16	15.16
Cellulose	4.74	5.83	5.35	4.88	5.35	4.88	3.79	3.79
Maltodextrin	3.32	11.65	11.07	10.74	11.07	10.74	2.65	2.65
Soyabean Oil	2.37	2.91	2.68	2.44	2.68	2.44	1.90	1.90
Lard	1.90	20.68	20.46	20.27	20.46	20.27	1.52	1.52
Potassium Citrate	1.56	1.92	1.77	1.61	1.77	1.61	1.25	1.25
Calcium Phosphate	1.23	1.52	1.39	1.27	1.39	1.27	0.99	0.99
DIO Mineral Mix	0.95	1.17	1.07	0.98	1.07	0.98	0.76	0.76
AIN-76A Vitamin Mix	0.95	1.17	1.07	0.98	1.07	0.98	0.76	0.76
Calcium Carbonate	0.52	0.64	0.59	0.54	0.59	0.54	0.42	0.42
L-Cystine	0.28	0.35	0.32	0.29	0.32	0.29	0.23	0.23
Choline Bitartrate	0.19	0.23	0.21	0.19	0.21	0.19	0.15	0.15
<b>Total</b>	<b>100</b>	<b>100</b>	<b>90</b>	<b>80</b>	<b>90</b>	<b>80</b>	<b>80</b>	<b>80</b>
KM Whole grain	0	0	<b>10</b>	<b>20</b>	0	0	20	0
KM-Bran	0	0	0	0	<b>10</b>	<b>20</b>	0	<b>20</b>
<b>% Energy and their source</b>								
Protein	20.0	20.0	18.9	17.7	18.8	17.7	17.2	17.2
Fat	10.1	45.5	45.4	45.0	45.3	45.2	9.4	9.5
Carbohydrate	69.9	34.5	35.9	37.2	35.8	37.1	73.5	73.4
Total	100	100	100	100	100	100	100	100

**Electronic supplementary information 1:** <sup>a</sup> Normal diet (ND) was based on DIO rodent purified diet w/~10% energy from fat from “TestDiet No. 58124” (TestDiet, St. Louis, USA).

<sup>b</sup> High-fat diet (HFD) was based on DIO rodent purified diet w/45% energy from fat from “TestDiet No. 58125” (TestDiet, St. Louis, USA).

<sup>c</sup> KM-WG/BR supplemented diets were prepared based on HFD composition (~45% energy from fat) while considering energy derived from fat + KM components (as per online resource 1).

<sup>d</sup> ND-20%WG and ND-20%BR supplemented diets were prepared based on NPD composition (~10% energy from fat) while considering energy derived from fat + KM components (as per online resource 1).