

Supplementary materials

Table S1. Body weight of the four groups.

Group	N	0w	1w	2w	3w	4w
C	6	73.7±6.7	137.2±11.6	186.0±13.4	250.9±9.9	303.8±13.4
H	6	72.9±4.2	133.2±10.9	157.6±12.7 ^{ab}	209.2±20.8 ^{ef}	235.0±19.0 ^{hij}
M	6	78.2±10.8	129.0±7.5	161.9±8.8 ^{cd}	223.8±14.8 ^g	256.2±9.0 ^{kl}
L	6	76.3±8.6	135.8±10.7	176.5±12.2	238.1±11.0	273.8±10.8 ^m

^a P=0.001, ^c P=0.002, ^e P=0, ^g P=0.005, ^h P=0, ^k P=0, ^m P=0.001, compared with group C. ^b P=0.013, ^d P=0.047, ^f P=0.003, ⁱ P=0, ^l P=0.037, compared with group L. ^j P=, 0.014, compared with group M.

Table S2. Food consumption and Water intake of the four groups.

Group	N	Food consumption (g)	Water intake (ml)
C	6	26.51±1.09	34.08±2.633
H	6	21.79±1.55 ^a	64.76±3.29 ^f
M	6	23.48±1.49 ^{bc}	57.02±3.53 ^{ghi}
L	6	24.29±1.56 ^{de}	44.88±2.86 ^k

^b P=0.037, ^d P=0.003, ^{g,j} P=0, compared with group H. ^a P=0, ^c P=0.001, ^e P=0.008, ^{f,h,k} P=0, ⁱ P<0.01, compared with group C. ⁱ P=0, compared with group L.

Table S3. Diarrhea of the four groups.

Group	N	Bristol score		Fecal grains	
		0w	4w	0w	4w
C	6	3.42±0.11	3.92±0.28	4.83±1.17	5.83±1.47
H	6	3.44±0.14	5.89±0.23 ^{abc}	4.67±1.21	26.83±2.14 ^{ghi}
M	6	3.40±0.13	5.34±0.33 ^{de}	4.33±1.03	22.50±3.27 ^{jk}
L	6	3.37±0.07	4.59±0.36 ^f	4.50±1.05	16.17±4.47 ^l

^{a, d, f, g, j, l} P=0, compared with group C. ^{b, h, k} P=0, ^e P=0.002, compared with group L. ^c P=0.005, ⁱ P=0.023, compared with group M.

Table S4. Physical activities of the four groups.

Group	N	WLFST (s)		FGST (g)	
		0w	4w	0w	4w
C	6	258.37±85.98	651.83±100.19	494.67±52.23	1507.92±103.94
H	6	269.13±70.83	448.66±82.67 ^{ab}	506.89±63.49	1244.53±113.53 ^{de}
M	6	253.35±78.80	528.27±94.52 ^c	505.57±67.48	1362.76±114.66 ^f
L	6	251.98±83.81	570.75±105.12	513.67±47.54	1462.17±102.27

^a P=0.002, ^c P=0.037, ^d P=0, ^f P=0.032, compared with group C. ^b P=0.039, ^e P=0.002, compared with group L. WLFST, weight-loaded forced swimming test. FGST, forelimb grip strength test.

Table S5. Hormone level and serum D-xylose content

Group	N	ACTH(pg/ml)	Cortisone(ng/ml)	17-OHCS(ng/ml)	D-xylose(mmol/L)
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C	6	78.03±12.39	46.21±8.83	2.18±0.91	4.70±0.81
H	6	37.97±10.21 ^{ab}	29.34±6.79 ^{de}	0.83±0.38 ^{fg}	2.95±0.75 ^{hi}
M	6	51.91±10.59 ^c	36.80±9.00	1.49±0.55	3.47±0.71 ^j
L	6	66.34±16.61	42.65±9.84	1.61±0.61	3.97±0.82

^a P=0, ^c P=0.002, ^d P=0.003, ^f P=0.002, ^h P=0.001, ^j P=0.012, compared with group C., ^b P=0.001, ^e P=0.016, ^g P=0.047, ⁱ P=0.033, compared with group L. ACTH, Adrenocorticotrophic hormone. 17-OHCS, 17-hydroxycorticosteroids.