

Table S1. The calcium sources of each treatment group.

	Ctrl	Calcium lactate, %		
		0.25	0.5	1.0
Calcium level	3.50	3.50	3.50	3.50
Ingredients				
Calcium lactate	0	0.25	0.50	1.0
Limestone	9.15	9.04	8.92	8.69
Calcium hydrogen phosphate	0.95	0.95	0.95	0.95
Zeolite powder	1.15	1.01	0.88	0.61
In total	11.25	11.25	11.25	11.25

Table S2. The information of commercial kits used for chemical analysis.

Index (Full name)	Index (abbreviation)	Product code
Total protein	TP	A095-1-1
Albumin	ALB	A028-1-1
Globulin	GLB	H128-1-1
Total cholesterol	TC	A111-1-1
High density lipoprotein	HDL	F003-1-1
Low density lipoprotein	LDL	H249-1-1
Creatinine	CR	C011-2-1
Urea	BUN	C013-1-1
Aspartate aminotransferase	AST	C010-2-1
Alanine aminotransferase	ALT	C009-2-1
Total bilirubin	TBil	C019-1-1
Creatine kinase	CK	A032-1-1
Calcium	Ca	C004-2-1
Phosphorus	P	T018-1-1
Immunoglobulin A	IgA	H108
Immunoglobulin M	IgM	H109
Immunoglobulin G	IgG	H106
Interleukin-2	IL-2	H003-1-1
Interleukin-6	IL-6	H007-1-1
Tumor necrosis factor- α	TNF- α	H052-1-2
Secretory immunoglobulin A	sIgA	H108-2-1