

Table S1. The content of growing rat diets (validation model and experimental groups).

Component (g/kg)	Groups of validation model		Experimental groups					
	RC	LC	LC-JA	LC-Y	LC-F	LC-JAS	LC-YS	LC-FS
corn starch	532.486	532.486	428.886	432.150	452.046	146.08	139.06	131.05
Cellulose	50.00	50.00	31.50	28.07	50.00	23.05	19.32	50.00
Sucrose	100.00	100.00	77.17	10.63	91.61	44.07	0.00	0.00
mineral mix	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
Jerusalem artichoke pulp	-	-	144.93	-	-	-	-	-
yacon root powder	-	-	-	211.64	-	-	-	-
Beneo Orafiti Synergy 1	-	-	-	-	89.83	-	-	-
sorbet with Jerusalem artichoke pulp	-	-	-	-	-	470.30	-	-
sorbet with yacon root powder	-	-	-	-	-	-	524.11	-
sorbet with Beneo Orafiti Synergy1	-	-	-	-	-	-	-	511.22

RC: diet with recommended calcium dose, LC: low-calcium diet (40% deficiency), LC-JA: low-calcium diet with Jerusalem artichoke pulp, LC-Y: low-calcium diet with yacon root powder, LC-F: low-calcium diet with Beneo Orafiti Synergy 1, LC-JAS: low-calcium diet with sorbet containing Jerusalem artichoke pulp, LC-YS: low-calcium diet with sorbet containing yacon root powder, LC-FS: low-calcium diet with sorbet containing Beneo Orafiti Synergy 1;

Content of casein (200 g/kg), soybean oil (70 g/kg), vitamin mix (10 g/kg), choline bitartate (2.5 g/kg), tert-butylhydroquinone (0.014 g/kg) was the same in all groups.

*Corn starch was placed in mineral mix instead of calcium