Supplementary Table 4. Mean relative abundance of top 4 different taxa at phylum level

	Placebo		Low dose group		High dose group	
	Baseline	4 weeks	Baseline	4	Baseline	4
				weeks	Daseline	weeks
Firmicutes	0.6482 ± 0.1459	0.6596 ± 0.1481	0.6580 ± 0.1290	0.6289 ± 0.1325	0.6434 ± 0.1678	0.6553 ± 0.1896
Actinobacteriota	0.1700 ± 0.1046	0.1167±0.1114	0.12800.1107	0.1010 ± 0.1203	0.1389 ± 0.0857	0.1103 ± 0.1280
Bacteroidota	0.1077 ± 0.0252	$0.1325{\pm}0.0246^a$	0.1062 ± 0.0957	0.2062±0.1298	0.1281 ± 0.0717	01655±0.1086
Proteobacteria	0.0790 ± 0.0727	0.0636 ± 0.0567	0.0832 ± 0.0889	0.0454 ± 0.0740	0.064 ± 0.0597	0.0478 ± 0.1107
F/B	7.6310±8.7460	22.9150±35.594	11.3096 ± 15.072	6.1567±8.5521	7.4971±5.4348	8.1785±9.6824
		O^a	4			

Data expressed as mean±standard deviations. The mean relative abundance of different taxa at phylum level were analyzed among three groups at baseline and the end of intervention using one-way analysis of variance or the Kruskal–Wallis H-test, and the Benjamin–Krieger–Yekutieli method was used to adjust *P* values for pairwise comparisons. ^a Significant difference between the low-dose and the placebo groups; ^b Significant difference between the high-dose and the placebo groups.