

Supplementary table S2. Fecal metabolites identified by untargeted metabolomics that were significantly altered by SRE. Compound type, direction of change compared to healthy controls (HC), as well as the time points in which changes were statistically significant are indicated, as well as overall p-values and adjusted p-values (FDR).

Compound name	Compound type	Change in relation to HC	Time points significantly different from HC	p-value	FDR
alanine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
asparagine	amino acid	increased	Baseline	0.001	0.006
aspartic acid	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
cysteine	amino acid	increased	Baseline	0.009	0.029
cystine	amino acid	increased	Baseline	0.001	0.003
glutamic acid	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
glycine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
isoleucine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
leucine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
lysine	amino acid	increased	3 weeks, 8 weeks	0.012	0.037
methionine	amino acid	increased	Baseline, 3 weeks, 8 weeks, Long Term	0.000	0.000
phenylalanine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
proline	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
serine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
threonine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
tryptophan	amino acid	increased	Baseline, 3 weeks, 8 weeks, Long Term	0.000	0.001
valine	amino acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
catechol	benzenediol	decreased		0.012	0.036
dehydroabietic acid	carboxylic acid	increased	Baseline	0.001	0.005

fucose	deoxy sugar	increased	Baseline, 3 weeks, 8 weeks	0.003	0.013
oxoproline	derivative from amino acid	increased	Baseline, 3 weeks, 8 weeks, Long Term	0.000	0.000
4-hydroxybenzoate	derivative of benzoic acid	decreased	Baseline, 3 weeks, 8 weeks, Long Term	0.000	0.000
malic acid	dicarboxylic acid	increased	Baseline	0.005	0.018
oxamic acid	dicarboxylic acid monoamide	increased	Baseline	0.005	0.019
glycyl tyrosine	dipeptide	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
glycyl-proline	dipeptide	increased	Baseline	0.012	0.037
homocystine	dipeptide	increased	Baseline	0.018	0.048
isomaltose	disaccharide	increased	Baseline	0.010	0.033
maltose	disaccharide	increased	3 weeks, 8 weeks, Long Term	0.001	0.006
3,4-dihydroxyphenyl-acetic acid	dopamine metabolite	decreased	8 weeks	0.016	0.043
galacturonic acid	galactose metabolite	increased	Baseline, 3 weeks, Long Term	0.000	0.001
glycerol-3-galactoside	galactose metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
N-acetyl-D-galactosamine	galactose metabolite	increased	Baseline, 3 weeks, 8 weeks	0.003	0.012
glucose	glucose	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
6-deoxyglucose	glucose metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
gluconic acid	glucose metabolite	increased	Baseline	0.012	0.036
myo-inositol	glucose metabolite	increased	Baseline	0.000	0.001
ribose	glucose metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
glyceric acid	glycerol metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.003
urocanic acid	histidine metabolite	increased	Baseline, 3 weeks, 8 weeks	0.002	0.010

2-hydroxyglutaric acid	hydroxy acid	increased	Baseline	0.014	0.040
sinapinic acid	hydroxycinnamic acids	decreased	8 weeks	0.009	0.031
indole-3-lactate	indole	decreased	3 weeks, 8 weeks, Long Term	0.000	0.002
inositol-4-monophosphate	inositol phosphate	increased	Baseline	0.005	0.019
2-ketoisocaproic acid	leucine metabolite	increased	Baseline, 3 weeks	0.000	0.001
aminomalonate	metabolism of amino acids	increased	Baseline	0.000	0.002
2-methylglyceric acid NIST	metabolite of propionic acid	increased	Baseline	0.006	0.020
isothreonic acid	metabolite vitamin C	increased	Baseline	0.005	0.019
threonic acid	metabolite vitamin C	increased	Baseline, Long Term	0.003	0.014
1-monostearin	monoglyceride	increased	Baseline, 3 weeks, Long Term	0.000	0.001
fructose	monosaccharide	increased	Baseline, 8 weeks	0.000	0.003
N-acetyl-D-mannosamine	monosaccharide	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
tagatose	monosaccharide	increased	Baseline	0.006	0.022
xylulose NIST	monosaccharide	increased	Baseline, 3 weeks, 8 weeks	0.003	0.011
5,6-dihydrouracil	nucleic acid metabolite	increased	Baseline, Long Term	0.007	0.022
adenine	nucleobase	increased	Baseline	0.016	0.043
pseudo uridine	nucleoside isomer	increased	3 weeks, 8 weeks	0.004	0.017
arachidonic acid	omega 6 fatty acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
phosphate	organophosphate	increased	Baseline, 8 weeks	0.000	0.000
methionine sulfoxide	oxidized amino acid	increased	Baseline	0.003	0.013
3,4-dihydroxyhydrocinnamic acid NIST	phytochemical	decreased	Baseline, 8 weeks	0.013	0.037
glycerol	polyol	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000

pinitol	polyol	increased	Baseline	0.000	0.003
xanthine	purine	increased	Baseline, 3 weeks, 8 weeks, Long Term	0.000	0.000
hypoxanthine	purine derivative	increased	Baseline, 3 weeks, 8 weeks	0.000	0.000
uric acid	purine metabolite	increased	8 weeks	0.013	0.037
pentitol	ribose metabolite	increased	Baseline, Long Term	0.004	0.017
arachidic acid	saturated fatty acid	increased	Baseline, 3 weeks	0.002	0.009
caprylic acid	saturated fatty acid	increased	Baseline, 3 weeks	0.001	0.006
isoheptadecanoic acid NIST	saturated fatty acid	increased	Baseline, 8 weeks	0.006	0.022
lauric acid	saturated fatty acid	increased	Baseline, 3 weeks, 8 weeks	0.000	0.001
lignoceric acid	saturated fatty acid	increased	Baseline	0.001	0.005
myristic acid	saturated fatty acid	increased	3 weeks	0.019	0.050
palmitic acid	saturated fatty acid	increased	Baseline	0.018	0.048
stearic acid	saturated fatty acid	increased	Baseline, 3 weeks	0.000	0.001
ethanolamine	serine metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.001
ribonic acid	sugar acid	increased	Baseline, 3 weeks, Long Term	0.001	0.006
hexitol	sugar alcohol	increased	Baseline	0.013	0.038
lyxitol	sugar alcohol	increased	Baseline, 8 weeks	0.004	0.015
3-(4-hydroxyphenyl) propionic acid	tyrosine metabolite	decreased	Baseline	0.013	0.037
tyramine	tyrosine metabolite	increased	Baseline	0.002	0.009
3-ureidopropionate	uracil metabolite	increased	Baseline, 3 weeks, 8 weeks	0.000	0.002
hexuronic acid	uronic acid	increased	Baseline, 3 weeks, Long Term	0.000	0.000
nicotinic acid	vitamin B3	increased	3 weeks, 8 weeks	0.002	0.008

tocopherol delta-NIST	vitamin E	increased	3 weeks, 8 weeks	0.012	0.036
tocopherol gamma-	vitamin E	increased	3 weeks, 8 weeks, Long Term	0.000	0.002
glucoheptulose		increased	Baseline	0.001	0.006