

## Reference Material 8048

### Human Fecal Material

# REFERENCE MATERIAL INFORMATION SHEET

**Purpose:** The non-certified values delivered by this Reference Material (RM) are intended for validating methods for routine metagenomic and metabolomic measurements, differential studies, interlaboratory comparisons, laboratory and instrument qualification, and training by the metagenomic and metabolomic communities. RM 8048 can be used to assess comparability within a laboratory, between laboratories, or among different measurement approaches. RM 8048 can also help assess the confidence of metagenomic and metabolite annotation and identification. NOTE: See page 26 for “Usage and Privacy Agreement” regarding identifiable private information.

**Description:** A unit of RM 8048 consists of four vials each from two dietary pools: Part A: Omnivore stool and Part B: Vegetarian stool. Each vial contains approximately 1 mL of stool slurry material (100 mg/mL cryohomogenized stool/water).

**Non-Certified Values:** Non-certified values are suitable for use in method development, method harmonization, and process control but do not provide metrological traceability to the International System of Units (SI) or other higher-order reference system [1].

Table 1 lists the moisture content of the omnivore and vegetarian stool. The moisture content was determined by freeze-drying 5 vials of each material continuously over a period of three days.

Non-certified metagenomic and metabolite identities (MSI level 2 [2]) present in RM 8048 are listed in Tables 2–7. These tables are also available as a download from the NIST store page, [https://shop.nist.gov/ccrz\\_ProductDetails?sku=8048&cclcl=en\\_US](https://shop.nist.gov/ccrz_ProductDetails?sku=8048&cclcl=en_US). This information is the best metagenomic and metabolite annotation/identification estimate based on currently available information as determined by 16S rRNA amplicon sequencing, LC-MS/MS, and NMR; however, the evidence does not meet the NIST criteria for certification of chemical identity. Tables 2–3 list the identities of the metagenomic constituents in the omnivore and vegetarian stool that have been established using identification methodology generally accepted by experts in the field. The identified genus in RM 8048 is inferred from metagenomic analysis by DNA extraction and 16S rRNA amplicon sequencing. Tables 4–5 list the identities of metabolites in the omnivore and vegetarian stool that have been established using identification methodology generally accepted by experts in the field. The identified metabolites in RM 8048 are inferred from untargeted metabolomics analysis (liquid chromatography mass spectrometry data dependent acquisition). Samples were analyzed on two different high resolution mass spectrometer instruments and the resulting tandem MS spectra (MS/MS) were searched with three different mass spectral library search algorithms. Tables 6–7 list the identities of metabolites in the omnivore and vegetarian stool that have been established using identification methodology generally accepted by experts in the field. The identified metabolites in RM 8048 are inferred from two independent methods by NMR using a 600 MHz, 700 MHz and 900 MHz instrument respectively.

**Additional Information:** Additional information is provided in Appendix A.

**Period of Validity:** The non-certified values are valid within the measurement uncertainty specified until **31 January 2030**. The value assignments are nullified if the material is stored or used improperly, damaged, contaminated, or otherwise modified.

**Maintenance of Non-Certified Values:** NIST will monitor this material to the end of its period of validity. If substantive technical changes occur that affect the non-certified values during this period, NIST will update this Reference Material Information Sheet and notify registered users. RM users can register online from a link available on the NIST SRM website or fill out the user registration form that is supplied with the RM. Registration will facilitate notification. Before making use of any of the values delivered by this material, users should verify they have the most recent version of this documentation, available through the NIST SRM website (<https://www.nist.gov/srm>).

Table 1. Non-Certified Moisture Content in Omnivore and Vegetarian Stool.

	Mass Fraction (%)
Moisture (Omnivore)	97.329 ± 0.426
Moisture (Vegetarian)	97.397 ± 0.420

Table 2. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Omnivore Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
1	TACGTATGGAGCAAGCGTTATCCGGATTACTGGGTGTAAGGGTGCCTAGGTGGCAGT GCAAGTCAAGTGTGAAAAGGCCGGGGCTCAACCCCGGAGCTGCATTGAAACTGCTCGGC TAGAGTACAGGAGAGGCAGGCCGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTGCTGGACTGTTACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	[Eubacterium] hallii group	<i>hallii</i>
2	TACGTATGGAGCAAGCGTTATCCGGATTACTGGGTGTAAGGGTGCCTAGGTGGCAGT GCAAGTCAAGTGTGAAAAGGCCGGGGCTCAACCCCGGAGCTGCATTGAAACTGCATAGC TAGAGTACAGGAGAGGCAGGCCGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTGCTGGACTGTTACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	[Eubacterium] hallii group	<i>hallii</i>
3	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGTAGACGGAATG GCAAGTCTGATGTGAAAAGGCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTACCGGAGGGGTAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	[Ruminococcus] gavreui group	NA
4	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGTAGACGGAATG GCAAGTCTGATGTGAAAAGGCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTACCGGAGGGGTAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	[Ruminococcus] gavreui group	NA
5	TACGTATGGTGAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGTAGACGGAGTG GCAAGTCTGATGTGAAAAGGCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTACCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	[Ruminococcus] torques group	NA
6	TACGTATGGTGAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGCAGGCCGTTGCG GCAAGTCTGATGTGAAAAGGCCGGGGCTCAACCCCGTACTGCATTGAAACTGTCGTAC TAGAGTGTGCGAGGGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGATAACTGACGCTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Agathobacter</i>	NA
7	TACAGAGGTCTCAAGCGTTGTTCCGAATCACTGGGCGTAAAGCGTGCCTAGGCTGTTTC GTAAGTCTGTGTGAAAAGGCCGGGGCTCAACCCCGGACGGCACATGATACTGCGAGAC TAGAGTAATGGAGGGGAAACCGGAATTCCTCGGTGAGCAGTGAATGCGTAGATATCGA GAGGAACACTCGTGGCGAAGGCCGGTTCCTGGACATTAAGTACGCTGAGGCACGAAAG GCCAGGGGAGCGAAAGGG	<i>Akkermansia</i>	<i>muciniphila</i>
8	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGTGGGTGTAAGGGTGCCTAGGTGGTATG GCAAGTCAAGAGTGAAGAACCCAGGGCTTAACTCTGGGACTGCTTTTGAAGTGTGACAGC TGGAGTGCAGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACATCAGTGGCGAAGGCCGCTTACTGGACTGAAACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	<i>Anaerostipes</i>	<i>hadrus</i>
9	TACGTAGGGTGAAGCGTTATCCGGAATTAAGTGGGCGTAAAGGGTGCCTAGGCGGTTTCG TCGCGTCCGGTGTGAAAAGTCCATCGCTTAAACGGTGGATCCGCGCCGGTACGGGCGGGC TTGAGTGCCTAGGGGAGACTGGAATTCCTCGGTGTAACGGTGAATGTGTAGATATCGG GAAGAACCAATGGCGAAGGCAGGTTCTTGGGCCGCTACTGACGCTGAGGAGCGAAA GCGTGGGGAGCGAAACAGG	<i>Bifidobacterium</i>	<i>adolescentis</i>
10	TACGTAGGGTGAAGCGTTATCCGGAATTAAGTGGGCGTAAAGGGTGCCTAGGCGGTTTCG TCGCGTCCGGTGTGAAAAGTCCATCGCTTAAACGGTGGATCCGCGCCGGTACGGGCGGGC TTGAGTGCCTAGGGGAGACTGGAATTCCTCGGTGTAACGGTGAATGTGTAGATATCGG GAAGAACCAATGGCGAAGGCAGGTTCTTGGGCCGCTACTGACGCTGAGGAGCGAAA GCGTGGGGAGCGAAACAGG	<i>Bifidobacterium</i>	<i>breve</i>
11	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGTAGACGGTGTG GCAAGTCTGATGTGAAAAGGCATGGGCTCAACCTGTGGACTGCATTGAAACTGTCATAC TTGAGTGCCTAGGGGAGACTGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	<i>obeum</i>

Table 2. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Omnivore Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
12	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGACTG GCAAGTCTGATGTGAAAGGCGGGGGCTCAACCCCTGGACTGCATTGGAACCTGTTAGTC TTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	<i>obeum</i>
13	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGATGG ACAAGTCTGATGTGAAAGGCTGGGGCTCAACCCCGGGACTGCATTGGAACCTGCCGTC TTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
14	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGCATA ACAAGTCTGATGTGAAAGGCTGGGGCTTAACCCCGGGACTGCATTGGAACCTGTTAAGC TTGAGTGCCGGAGGGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
15	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGATTA GCAAGTCTGATGTGAAAGGCGAGGGGCTCAACCCCTGGACTGCATTGGAACCTGCCAGTC TTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACGGCAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
16	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGCGCA GCAAGTCTGATGTGAAAGGCGAGGGGCTTAACCCCTGGACTGCATTGGAACCTGCTGTGC TTGAGTGCCGGAGGGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
17	TACGTAGGTGGCGAGCGTTATCCGGAATCATTGGGCGTAAAGAGGGAGCAGGCGGCCGC AAGGGTCTGTGGTGAAGACCGAAGCTAAACTTCGGTAGCCATGGAACCGGGCGGCT AGAGTGCGGAAGAGGATCGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATATGG AGGAACACCAGTGGCGAAGGCGACGGTCTGGGCCCAACTGACGCTCATTCCCGAAAGC GTGGGGAGCAAATAGG	<i>Catenibacterium</i>	NA
18	TACGTAGGTGGCGAGCGTTATCCGGAATCATTGGGCGTAAAGAGGGAGCAGGCGGCCGC AAGGGTCTGTGGTGAAGACCGAAGCTAAACTTCGGTAGCCATGGAACCGGGCGGCT AGAGTGCGGAAGAGGATCGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATATGG AGGAACACCAGTGGCGAAGGCGACGGTCTGGGCCCAACTGACGCTCATTCCCGAAAGC GTGGGGAGCAAATAGG	<i>Catenibacterium</i>	NA
19	TACGTAGGTGGCGAGCGTTGTCCGGATTACTGGGCGTAAAGGGAGCGTAGGCGGATTT TTAAGTGAGATGTGAAATACTCGGGCTTAACCTGAGTGTGCTCATTTCAAACTGGAAGTCT AGAGTGCAGGAGAGGAGAAGGGAATTCCTAGTGTAGCGGTGAAATGCGTAGAGATTAG GAAGAACACCAGTGGCGAAGGCGCTTCTCTGGACTGTAAGTACGCTGAGGCTCGAAA CGTGGGGAGCAAACAGG	<i>Clostridium sensu stricto 1</i>	NA
20	TACGTAGGTGGCGAGCGTTGTCCGGATTACTGGGCGTAAAGGGAGCGTAGGCGGACTT TTAAGTGAGATGTGAAATACTCGGGCTCAACTTGGGTGCTGCATTTCAAACTGGAAGTCT AGAGTGCAGGAGAGGAGAATGGAATTCCTAGTGTAGCGGTGAAATGCGTAGAGATTAG GAAGAACACCAGTGGCGAAGGCGATTCTCTGGACTGTAAGTACGCTGAGGCTCGAAA CGTGGGGAGCAAACAGG	<i>Clostridium sensu stricto 1</i>	NA
21	TACGTAGGGGGCGAGCGTTATCCGGATTACTGGGCGTAAAGCGCGCTAGGCGGCCCG GCAGGCCGGGGTTCGAAGCGGGGGCTCAACCCCGGAAGCCCGGAACCTCCGCGG CTTGGGTCCGGTAGGGAGGGTGAACACCCGGTGTAGCGGTGGAATGCGCAGATATCG GGTGAACACCGGTGGCGAAGGCGGCCCTCTGGGCCGAGACCGACGCTGAGGCGCGAA AGCTGGGGAGCGAACAGG	<i>Collinsella</i>	<i>aerofaciens</i>
22	TACGTAGGGGGCGAGCGTTATCCGGATTACTGGGCGTAAAGCGCGCTAGGCGGCCTG GCAGGCCGGGGTCAAATGCGGGGGCTCAACCCCGCGCCCGCCCGGAACCTCCGGGCT TGGTCCGGTAGGGAGGGTGAACACCCCGTACGCGGTGGAATGCGCAGATATCGG GTGGAACACCGGTGGCGAAGGCGGCCCTCTGGGCCGTGACCGACGCTGAGGCGCGAAA GCTGGGGAGCGAACAGG	<i>Collinsella</i>	NA
23	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGGCGGCGGA GCAAGTCAAGAAGTGAAGCCCGGGGCTCAACCCCGGGACGGCTTTGAAACTGCCCTGC TTGATTTCAAGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGGCTTACTGGACTGACAATGACGCTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Coprococcus</i>	<i>catus</i>
24	TACGGAGGGTGAAGCGTTACCCGGAATCACTGGGCGTAAAGGGCGTGTAGGCGGAAA TTAAGTCTGGTTTTAAAGACCGGGGCTCAACCTCGGGATGGACTGGATACTGGATTTTC TTGACCTCTGGAGAGGTAAGTGAATTCCTGGTGTAGCGGTGGAATGCGTAGATACCAG GAGGAACACCAATGGCGAAGGCAAGTTACTGGACAGAAGGTGACGCTGAGGCGCGAAA GTGTGGGGAGCAAACCGG	<i>Deinococcus</i>	<i>radiodurans</i>

Table 2. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Omnivore Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
25	TACGTAGGGTGCAGCGTTAATCGGAATTACTGGGCGTAAAGCGTGCAGCGGTTAT GTAAGACAGATGTGAAATCCCCGGGCTCAACCTGGGAACCTGATTTGTGACTGCATGGC TAGAGTACGGTAGAGGGGGATGGAATCCCGCTGTAGCAGTAAAATGCGTAGATATGCG GAGGAACACCGATGGCGAAGGCAATCCCCTGGACCTGTACTGACGCTCATGCACGAAA CGTGGGGAGCAAACAGG	<i>Delftia</i>	<i>tsuruhatensis</i>
26	TACGTAGGTGGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGCGCGCGCAGGCGGCTTC TTAAGTCCATCTTAAAAGTGCAGGGCTTAAACCCCGTATGGGATGGAACCTGAGAGGCT GGAGTATCGGAGAGGAAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGAGATTAG GAAGAACACCGGTGGCGAAGGCGACTTTCTGGACGACAACCTGACGCTGAGGCGGAAA GCGTGGGGAGCAAACAGG	<i>Dialister</i>	NA
27	TACGGAGGGTGCAGCGTTAATCGGAATGACTGGGCGTAAAGCGCACGAGGCGGTCTG TTAAGTTGGATGTGAAATCCCCGGGCTTAACTGGGAACCTGATTCAAAACCTGACAGGC TAGAGTCTCGTAGAGGGGGGTAGAATCCAGGTGTAGCGGTGAAATGCGTAGAGATCTG GAGGAATACCGTGGCGAAGGCGGCCCCCTGGACGAAGACTGACGCTCAGGTGCGAAA GCGTGGGGAGCAAACAGG	<i>Dickeya</i>	<i>zeae</i>
28	TACGTAGGGGGCAAGCGTTATCCGGAATTACTGGGTGTAAGGGAGCGTAGACGGCACG GCAAGCCAGATGTGAAAGCCCGGGGCTCAACCCCGGACTGCATTTGGAACCTGCTGAGC TAGAGTGTCCGAGAGGCAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCGGCTTGTGACGATGACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Dorea</i>	NA
29	TACGTAGGGGGCAAGCGTTATCCGGAATTACTGGGTGTAAGGGAGCGTAGACGGCTGT GCAAGTCTGAAAGTAAAAGCATGGGCTCAACCTGTGGACTGCTTTGGAACTGTGCAGC TAGAGTGTCCGAGAGGTAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCGGCTTACTGGACGATGACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Dorea</i>	<i>formicigeneran s</i>
30	TACGTAGGGGGCGAGCGTTATCCGGAATGATTGGGCGTAAAGCGCGCGCAGGCGGCCGC TCAAGCGGACCTCTAACCCCGGGGCTCAACCCCGGGCGGGTCCCGAACTGGGCGGCT CGAGTCCGGTAGGGGAGAGCGGAATCCCAAGTGTAGCGGTGAAATGCGCAGATATTGG AAGAACACCGATGGCGAAGGCGACTCTCTGGGCCGCTACTGACGCTGAGGCGCGAAA CCGGGGAGCGAACAGG	<i>Enterorhabdus</i>	NA
31	TACGTAGGTGGCGAGCGTTATCCGGAATTATTGGGCGTAAAGAGGGAGCAGGCGGCACT AAGGGTCTGTGGTAAAAGATCGAAGCTTAACTTCGGTAAGCCATGGAACCGTAGAGCT AGAGTGTGTGAGAGGATCGTGGAAATCCATGTGTAGCGGTGAAATGCGTAGATATATGG AGGAACACCAAGTGGCGAAGGCGACGATCTGGCGCATAACTGACGCTCAGTCCCAGAA GCGTGGGGAGCAAATAGG	<i>Erysipelotrichaceae UCG-003</i>	NA
32	AACGTAGGTACACAAGCGTTGTCCGGAATTACTGGGTGTAAGGGAGCGCAGGCGGGAA GACAAGTTGGAAGTAAAATCTATGGGCTCAACCCATAAACTGCTTTCAAAACTGTTTTTC TTGAGTAGTGCAGAGGTAGGCGGAATCCCGGTGTAGCGGTGGAATGCGTAGATATCGG GAGGAACACCAAGTGGCGAAGGCGGCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GTGTGGGTAGCAAACAGG	<i>Faecalibacterium</i>	<i>prausnitzii</i>
33	AACGTAGGTACACAAGCGTTGTCCGGAATTACTGGGTGTAAGGGAGCGCAGGCGGGAA GACAAGTTGGAAGTAAAATCCATGGGCTCAACCCATGAAGTCTTTCAAAACTGTTTTTC TTGAGTAGTGCAGAGGTAGGCGGAATCCCGGTGTAGCGGTGGAATGCGTAGATATCGG GAGGAACACCAAGTGGCGAAGGCGGCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GTGTGGGTAGCAAACAGG	<i>Faecalibacterium</i>	<i>prausnitzii</i>
34	TACGTAGGGGGCAAGCGTTATCCGGAATTATTGGGCGTAAAGAGTACGTAGGTGGTTTT CTAAGCACGGGTTAAAGCAATGGCTTAACTTGTTCGCTTGTGAACTGGAAGACTT GAGTGCAGGAGAGGAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGG AGGAACACCAAGTGGCGAAGGCGGCTTTCTGGACTGTAAGTACTGACTGAGGTACGAAA GTGGGGAGCAAACAGG	<i>Family XIII AD3011 group</i>	NA
35	TACGTAGGGGGCAAGCGTTATCCGGAATTACTGGGTGTAAGGGAGCGTAGACGGCAAG GCAAGTCTGATGTGAAAACCCAGGGCTTAAACCTGGGACTGCATTGGAACCTGTCTGGC TCGAGTCCCGGAGAGGTAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAAGAACACCAAGTGGCGAAGGCGGCTTACTGGACGTAAGTACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Fusicatenibacter</i>	NA
36	TACGTAGGTGGCGAGCGTTATCCGGAATGATTGGGCGTAAAGGGTGCAGTGGTGGCAGA TCAAGTCTGGAGTAAAAGGTATGGGCTCAACCCGACTGGCTCTGGAACTGATCAGCT AGAGAACAGAAGAGGACGGCGGAATCCATGTGTAGCGGTAAAATGCGTAGATATATG GAAGAACACCGGTGGCGAAGGCGGCTTGTGCTGATTCTGACTGAAGCAGGAAA GCGTGGGGAGCAAATAGG	<i>Holdemanella</i>	NA
37	TACGTAGGGAGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGTGCAGTGGCGGATTG GCAAGTCAAGAAGTAAAATCCATGGGCTTAAACCATGAAGTCTTTTGAACCTGTTAGTCT TGAGTGAAGTAGAGGTAGGCGGAATCCCGGTGTAGCGGTGAAATGCGTAGAGATCGG GAGGAACACCAAGTGGCGAAGGCGGCTACTGGGCTTAACTGACGCTGAGGCGGAAA GTGTGGGTAGCAAACAGG	<i>Incertae Sedis</i>	NA

Table 2. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Omnivore Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
38	TACGTAGGTGGCAAGCGTTATCCGGATTACTGGGTGTAAGGGCGTGTAGGCGGGAGT GCAAGTCAGATGTGAAAATTATGGGCTCAACCCATAACCTGCATTTGAAACTGTACTTCT TGAGTACTGGAGAGGCAGGCCGGAATCCGTGTGTAGCGGTGAAATGCGTAGATATACGG AGGAACACCAGTGGCGAAGGCCGCTGCTGGACAGCAACTGACGCTGAGGCGGAAAG CGTGGGGAGCAAACAGG	<i>Intestinimonas</i>	NA
39	TACGTATGGTGAAGCGTTATCCGGATTACTGGGTGTAAGGGGAGCGTAGGTGGCAAG GCAAGCCAGAAGTGA AACCCGGGGCTCAACCCGCGGATTGCTTTTGGAACTGTCATGC TAGAGTGCAGGAGGGGTGAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCGGAGGCCAAGGCCGCTACTGGACTGTA ACTGACACTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Lachnospiraceae</i> <i>ND3007 group</i>	NA
40	TACGTATGGGGCGAGCGTTATCCGGATTCAATTGGGCGTAAAGCGCGCGTAGGCGGCCTG GCAGGCCGGGAGTCAAATCCGGGGGCTCAACCCCGCCGCTCCCGGAACCTCCAGGCT TGAGTCTGGCAGGGGAGGGTGAATACCCGGTGTAGCGGTGAAATGCGCAGATATCGG GTAGAACACCGGTGGCGAAGGCCGCCCTCTGGGCCACGACTGACGCTGAGGCGCGAAA GCTGGGGGAGCAAACAGG	<i>Libanicoccus</i>	NA
41	CACCGGACGTCTAGTGGTAGCAGTTTTATTGGGCTAAAGCGTCCGTAGCCGTTTAA TAAGTCTCTGGTGAATCCTGCAGCTTAACTGTGGGAATTGCTGGAGATACTATTAGACT TGAGATCGGGAGAGGTTAGAGTACTCCAGGGTAGAGGTGAAATCTGTAATCCTGGG AGGACCGCTGTTGGAAAGCGTCTGACTGGAACGATTCTGACGGTGAGGGACGAAAGC TAGGGGCGCAACCGG	<i>Methanobrevibacter</i>	<i>smithii</i>
42	TACGTAGGGGCAAGCGTTATCCGGAATTATTGGGCGTAAAGAGTGCCTAGGTGGTTAT CTAAGCGTAAGTTTAAAGCTGCAGCTCAACTGCATCTCGCTTTCGAACTGGACTACTT GAGTGCAGGAGGGGAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGG AGGAACACCAGCGGCGAAGGCCGCTTCTGGACTGTA ACTGACACTGAGGCACGAAAG CGTGGGGAGCAAACAGG	<i>Mogibacterium</i>	NA
43	TACGTAGGTGACAAGCGTTGTCCGGATTACTGGGTGTAAGGGCGCGTAGGCGGACTG TCAAGTCAGTCGTGAAATACCGGGGCTTAAACCCGGGGCTGCGATTGAAACTGACAGCC TTGAGTATCGGAGAGGAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTCTGGACGACA ACTGACGCTGAGGCGCGAAA GTGTGGGGAGCAAACAGG	<i>Monoglobus</i>	NA
44	TACGTAGGGGGCTAGCGTTATCCGGAATTACTGGGCGTAAAGGGTGCCTAGGTGGTTTC TTAAGTCAGAGGTGAAAGGCTACGGCTCAACCGTAGTAAGCCTTTGAAACTGGGAAACT TGAGTGCAGGAGAGAGAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGG AGGAACACCAGTTGGCAAGGCCGCTCTCTGGACTGTA ACTGACACTGAGGCACGAAAGC GTGGGGAGCAAACAGG	<i>Romboutsia</i>	<i>ilealis</i>
45	TACGTAGGGAGCAAGCGTTGTCCGGATTACTGGGTGTAAGGGTGCCTAGGCGGCTTT GCAAGTCAGATGTGAAATCTATGGGCTCAACCCATAA ACTGCATTTGAAACTGTAGAGC TTGAGTGAAGTAGAGGCAGGCGGAATTCGCCGTGTAGCGGTGAAATGCGTAGAGATGGG GAGGAACACCAGTGGCGAAGGCCGCTGCTGGGCTTAACTGACGCTGAGGCACGAAA CGTGGGTAGCAAACAGG	<i>Ruminococcus</i>	<i>bromii</i>
46	TACGTATGGGGCGAGCGTTATCCGGATTCAATTGGGCGTAAAGCGCGCGTAGGCGGAGCG CTAAGCGGGACCTCTAACCCGAGGGCTCAACCCCGGCCGGTCCCGAACTGGCGCTCT CGAGTGCGGTAGGGGAGAGCGGAATTCGCCGTGTAGCGGTGAAATGCGCAGATATCGG GAAGAACCCGACGGCGAAGGCAGCTCTCTGGGCCGAAACTGACGCTGAGGCGCGAAA GCTGGGGGAGCGAACAGG	<i>Senegalimassilia</i>	NA
47	TACGTAGGTCGCCGAGCGTTGTCCGGATTATTGGGCGTAAAGCGAGCGCAGGCGGTTTG ATAAGTCTGAAGTTAAAGGCTGTGGCTCAACCATAGTTCGCTTTGAAACTGTCAA ACTT GAGTGCAGAAAGGGGAGAGTGAATTCATGTGTAGCGGTGAAATGCGTAGATATATGG AGGAACACCAGTGGCGAAGGCCGCTCTCTGGTCTGTA ACTGACGCTGAGGCTCGAAAGC GTGGGGAGCGAACAGG	<i>Streptococcus</i>	<i>salivarius</i>
48	AACGTAGGGTGAAGCGTTGTCCGGATTACTGGGTGTAAGGGGAGCGCAGGCGGGAA GACAAGTTGGAAGTGA AAAACCATGGGCTCAACCCATGAATTTGCTTTCAA ACTGTTTTCT TTGAGTAGTGCAGAGGTAGATGGAATTCGCCGTGTAGCGGTGAAATGCGTAGATATCGG GAGGAACACCAGTGGCGAAGGCCGCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GCATGGGTAGCAAACAGG	<i>Subdoligranulum</i>	NA
49	AACGTAGGGTGAAGCGTTGTCCGGATTACTGGGTGTAAGGGGAGCGCAGGCGGACC GGCAAGTTGGAAGTGA AAAACTATGGGCTCAACCCATAA ACTGCTTTCAA ACTGCTGGC CTTGAGTAGTGCAGAGGTAGGTGGAATTCGCCGTGTAGCGGTGAAATGCGTAGATATCG GGAGGAACACCAGTGGCGAAGGCCACCTACTGGGCACCAACTGACGCTGAGGCTCGAA AGCATGGGTAGCAAACAGG	<i>Subdoligranulum</i>	NA
50	TACGTAGGTGGCAAGCGTTGTCCGGATTACTGGGTGTAAGGGCGTGTAGCCGGGAAG GCAAGTCAGATGTGAAATCCAGGGCTTAACTCGTGA ACTGCATTTGAAACTGTTTTTCT TGAGTATCGGAGAGGCAATCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGG AGGAACACCAGTGGCGAAGGCCGATTGCTGGACGACA ACTGACGCTGAGGCGCGAAAG CGTGGGGAGCAAACAGG	UCG-002	NA

<sup>(a)</sup> NA indicates a species was not assigned.

Table 3. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Vegetarian Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
1	TACGTATGGAGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGTGCCTAGGTGGCAGT GCAAGTCAGATGTGAAAGGCCGGGGCTCAACCCCGGAGCTGCATTGAAACTGCCTGGC TAGAGTACAGGAGAGGCAGGCCGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTGCTGGACTGTTACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	[Eubacterium] hallii group	<i>hallii</i>
2	TACGTATGGAGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGTGCCTAGGTGGCAGT GCAAGTCAGATGTGAAAGGCCGGGGCTCAACCCCGGAGCTGCATTGAAACTGCATAGC TAGAGTACAGGAGAGGCAGGCCGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTGCTGGACTGTTACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	[Eubacterium] hallii group	<i>hallii</i>
3	TACGTAGGGGGCAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGAATG GCAAGTCTGATGTGAAAGGCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTACCGGAGGGGTAAGTGGAAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	[Ruminococcus] gavreaii group	NA
4	TACGTATGGTGAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGAGTG GCAAGTCTGATGTGAAAACCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTACCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	[Ruminococcus] torques group	NA
5	TACGTAGGGGGGAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGAGTG GCAAGTCTGATGTGAAAACCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTGTGCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Adlercreutzia</i>	NA
6	TACGTATGGTGAAGCGTTATCCGGATTACTGGGTGTAAAGGGAGCGTAGACGGAGTG GCAAGTCTGATGTGAAAACCCGGGGCTCAACCCCGGACTGCATTGAAACTGTCAATC TAGAGTGTGCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Agathobacter</i>	NA
7	TACAGAGGTCTCAAGCGTTGTTCCGAATCACTGGGCGTAAAGCGTGCCTAGGCTGTTTC GTAAGTCGTGTGTGAAAGCGCGGGCTCAACCCCGGACGGCACATGATACTGCGAGAC TAGAGTAATGGAGGGGGAACCGGAATTCCTCGGTGTAGCAGTGAATGCGTAGATATTAG GAGGAACACTCGTGGCGAAGGCCGCTTACTGGACATTAAGTACGCTGAGGCACGAAAG GCCAGGGGAGCGAAAGGG	<i>Akkermansia</i>	<i>muciniphila</i>
8	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGCGTTACTGGGTGTAAAGGGTGCCTAGGTGGTATG GCAAGTCAGAAGTGAAGCCAGGGCTTAAGTCTGGGACTGCTTTTGAAGTGTGAGAC TGGAGTGCAGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACATCAGTGGCGAAGGCCGCTTACTGGACTGAAACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	<i>Anaerostipes</i>	<i>hadrus</i>
9	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGCGTTACTGGGTGTAAAGGGTGCCTAGGTGGTATG GCAAGTCAGAAGTGAAGCCAGGGCTTAAGTCTGGGACTGCTTTTGAAGTGTGAGAC TAGAGTGCAGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACATCAGTGGCGAAGGCCGCTTACTGGACTGAAACTGACACTGAGGCACGAAA GCGTGGGGAGCAAACAGG	<i>Anaerostipes</i>	<i>hadrus</i>
10	TACGTAGGGGTGAAGCGTTATCCGGAATTAAGCGTTACTGGGTGTAAAGGGTGCCTAGGTGGTATG GCAAGTCAAGAGTGAAGCCAGGGCTTAAGTCTGGGACTGCTTTTGAAGTGTGAGAC TAGAGTGTGCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAATGGCGAAGGCAGGTCTCTGGGCCGTCAGTACGCTGAGGAGCGAAA GCGTGGGGAGCGAACAGG	<i>Bifidobacterium</i>	<i>adolescentis</i>
11	TACGTAGGGGTGAAGCGTTATCCGGAATTAAGCGTTACTGGGTGTAAAGGGTGCCTAGGTGGTATG GCAAGTCAAGAGTGAAGCCAGGGCTTAAGTCTGGGACTGCTTTTGAAGTGTGAGAC TAGAGTGTGCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAATGGCGAAGGCAGGTCTCTGGGCCGTCAGTACGCTGAGGAGCGAAA GCGTGGGGAGCGAACAGG	<i>Bifidobacterium</i>	<i>breve</i>
12	TACGTAGGGTGCAGCGTTATCCGGATTACTGGGTGTAAAGGGTGCCTAGGTGGCAGT GCAAGTCAAGAGTGAAGCCAGGGCTTAAGTCTGGGACTGCTTTTGAAGTGTGAGAC TAGAGTGTGCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAA GCGTGGGGAGCAAACAGG	<i>Bifidobacterium</i>	<i>animalis</i>

Table 3. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Vegetarian Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
13	TACGTAGGGGTGCAAGCGTTATCCGGAATTATTGGGCGTAAAGGGCTCGTAGGCGGTTCCGTCGCGTCCGGTGTGAAAAGTCCATCGCTTAACCGTGGATCTGCGCCGGGTACGGGCGGGCTGGAGTGCGGTAGGGGAGACTGGAAATCCCGGTGTAACCGTGGAAATGTGTAGATATCGGGAAGAACACCAATGGCGAAGGCAGGTCTCTGGGCCGTTACTGACGCTGAGGAGCGAAAGCGTGGGGAGCGAACAGG	<i>Bifidobacterium</i>	<i>catenulatum</i>
14	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGTGTGCAAGTCTGATGTGAAAAGGCATGGGGCTCAACCTGTGGACTGCATTGGAAACTGTCATAC TTGAGTGCCGGAGGGGTAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	<i>obeum</i>
15	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGATGGACAAGTCTGATGTGAAAAGGCTGGGGCTCAACCCCGGACTGCATTGGAAACTGCCGCTC TTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
16	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGACTGCAAGTCTGATGTGAAAAGCGGGGGCTCAACCCCTGGACTGCATTGGAAACTGTTAGTCTTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	<i>obeum</i>
17	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGCGCAGCAAGTCTGATGTGAAAAGGCAGGGGGCTTAACCCCTGGACTGCATTGGAAACTGCTGTGCTTGAGTGCCGGAGGGGTAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
18	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGAGCAGCAAGTCTGATGTGAAAAGCGGGGGCTCAACCCCGGACTGCATTGGAAACTGTTGATCTTGAGTACCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
19	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGATTAACAAGTCTGATGTGAAAAGGCAGGGGGCTCAACCCCTGGACTGCATTGGAAACTGCCAGTCTTGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGCAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
20	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGTGTGCAAGTCTGATGTGAAAAGCGGGGGCTCAACCCCTGGACTGCATTGGAAACTGTGATAC TCGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGGTAACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Blautia</i>	NA
21	TACGTAGGGAGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGCGCGCAGGCGGGCCGGTAAGTGGAAAGTGAATCTATGGGCTTAACCCATAAACTGCTTTCAAAACTGCTGGTCTTGAGTGATGGAGAGGCAGGCGGAATTCCTGTGTAGCGGTGAAATGCGTAGATATACGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACATTAAGTACGCTGAGGCGCGAAAGCGTGGGGAGCAAACAGG	<i>Butyricoccus</i>	NA
22	TACGTAGGGGGCGAGCGTTATCCGGATTCATTGGGCGTAAAGCGCGCGTAGGCGGCCCCGCAGGCCGGGGTCAAGCGGGGGCTCAACCCCGGAAGCCCGGAACTCCGCGGCTTGGGTCCGGTAGGGAGGGTGAACACCCGGTGTAGCGGTGGAATGCGCAGATATCGGGTGAACACCGGTGGCGAAGGCCGCCCTCTGGGCCGAGACCGACGCTGAGGCGCGAAAGCTGGGGGAGCGAACAGG	<i>Collinsella</i>	<i>aerofaciens</i>
23	TACGTAGGGGGCGAGCGTTATCCGGATTCATTGGGCGTAAAGCGCGCGTAGGCGGCCCCGCAGGCAGGGGGTCAAATGGCGGGGCTCAACCCCGTCCCGCCCCCTGAACCGCCGGGCTCGGGTCCGGTAGGGAGGGTGAACACCCCGGTAGCGGTGGAATGCGCAGATATCGGTGGAACACCGGTGGCGAAGGCCGCCCTCTGGGCCGAGACCGACGCTGAGGCGCGAAAGCTGGGGAGCGAACAGG	<i>Collinsella</i>	<i>stercoris</i>
24	TACGTATGGTGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGACGGCTGTGTAAGTCTGAAGTGAAGCCCGGGGCTCAACCCCGGACTGCTTGGAAACTATGCAGCTAGAGTGTCCGGAGAGGTAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACGATGACTGACGTTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Coprococcus</i>	<i>comes</i>
25	TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAAGGGAGCGTAGGCGGCGGAGCAAGTCAAGAAGTGAAGCCCGGGGCTCAACCCCGGACGGCTTTTGGAACTGCCCTGCTTGATTTACAGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGGAGGAACACCAAGTGGCGAAGGCCGCTTACTGGACTGACAATGACGCTGAGGCTCGAAAGCGTGGGGAGCAAACAGG	<i>Coprococcus</i>	<i>catus</i>

Table 3. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Vegetarian Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
26	TACGGAGGGTGAAGCGTTACCCGGAATCACTGGGCGTAAAGGGCGTGTAGGCGGAAA TTAAGTCTGGTTTTAAAGACCCGGGGCTCAACCTCGGGGATGGACTGGATACTGGATTTT TTGACCTCTGGAGAGGTAACCTGGAATTCCTGGTGTAGCGGTGGAATGCGTAGATACCAG GAGGAACACCAATGGCGAAGGCAAGTTACTGGACAGAAAGGTGACGCTGAGGCGCGAAA GTGTGGGGAGCAAACCGG	<i>Deinococcus</i>	<i>radiodurans</i>
27	TACGTAGGGTGCAGCGTTAATCGGAATTAAGGCGTAAAGCGTGCAGGCGGTTAT GTAAGACAGATGTGAAATCCCGGGCTCAACCTGGGAAGTGCATTTGTGACTGCATGGC TAGAGTACGGTAGAGGGGATGGAATTCGCGTGTAGCAGTGAATGCGTAGATATGCG GAGGAACACCGTAGGCGAAGGCAATCCCTGGACCTGTACTGACGCTCATGCACGAAAG CGTGGGGAGCAAACAGG	<i>Delftia</i>	<i>tsuruhatensis</i>
28	TACGTAGGTGGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGCGCGCAGGCGGCTTC CCAAGTCCCTCTAAAAGTGCAGGGCTTAACCCCGTGTGGGAAGGAACTGGGAAGCT GGAGTATCGGAGAGGAAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGAGATTAG GAAGAACACCGTGGCGAAGGCGACTTTCTGGACGAAAAGTACGCTGAGGCGCGAAA CCGTGGGGAGCAAACAGG	<i>Dialister</i>	<i>invisus</i>
29	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGGAGCGTAGACGGCAGC GCAAGCCAGATGTGAAAGCCCGGGCTCAACCCCGGACTGCATTTGGAAGTGTGAGC TAGAGTGTCCGAGAGGCAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCGCTTGTGACGATGACTGACGTTGAGGCTCGAAA CCGTGGGGAGCAAACAGG	<i>Dorea</i>	NA
30	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGGAGCGTAGACGGCTGT GCAAGTCTGAAGTGAAGGCAATGGGCTCAACCTGTGGACTGCTTTGAAACTGTGACG TAGAGTGTCCGAGAGGTAAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAAGTGGCGAAGGCGCTTACTGGACGATGACTGACGTTGAGGCTCGAAA CCGTGGGGAGCAAACAGG	<i>Dorea</i>	<i>formicigenerans</i>
31	AACGTAGGTGACAAGCGTTGTCCGGAATTAAGGAGCGCAGGCGGGAA GACAAGTTGGAAGTGAATCTATGGGCTCAACCCATAAACTGCTTTCAAAGTGTGTTTC TTGAGTAGTGCAGAGGTAGGCGGAATTCGCGGTGTAGCGGTGGAATGCGTAGATATCGG GAGGAACACCAAGTGGCGAAGGCGCCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GTGTGGGTAGCAAACAGG	<i>Faecalibacterium</i>	<i>prausnitzii</i>
32	AACGTAGGTGACAAGCGTTGTCCGGAATTAAGGAGCGCAGGCGGGCG ATCAAGTTGGAAGTGAATCCATGGGCTCAACCCATGAAGTGCATTTCAAAGTGTGTTTC TTGAGTAGTGCAGAGGTAGGCGGAATTCGCGGTGTAGCGGTGGAATGCGTAGATATCGG GAGGAACACCAAGTGGCGAAGGCGCCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GTGTGGGTAGCAAACAGG	<i>Faecalibacterium</i>	NA
33	AACGTAGGTGACAAGCGTTGTCCGGAATTAAGGAGCGCAGGCGGGAA GACAAGTTGGAAGTGAATCCATGGGCTCAACCCATGAAGTGCATTTCAAAGTGTGTTTC TTGAGTAGTGCAGAGGTAGGCGGAATTCGCGGTGTAGCGGTGGAATGCGTAGATATCGG GAGGAACACCAAGTGGCGAAGGCGCCTACTGGGCACCAACTGACGCTGAGGCTCGAAA GTGTGGGTAGCAAACAGG	<i>Faecalibacterium</i>	<i>prausnitzii</i>
34	TACGTAGGGGGCAAGCGTTATCCGGAATTAAGGAGCGTAGACGGCAAG GCAAGTCTGATGTGAAAACCCAGGGCTTAACCCCTGGACTGCATTGGAAGTGTCTGGC TCGAGTGCCGGAGAGGTAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAAGAACACCAAGTGGCGAAGGCGGCTTACTGGACGTAAGTACGCTGAGGCTCGAAA CCGTGGGGAGCAAACAGG	<i>Fusicatenibacter</i>	NA
35	TACGTAGGTGGCGAGCGTTATCCGGAATGATTGGGCGTAAAGGGTGCAGTGGCAGA TCAAGTCTGGAGTAAAGGTATGGGCTCAACCCGACTGGCTCTGGAAACTGATCAGCT AGAGAACAGAGAGGACGGCGGAACCTCATGTGTAGCGGTAAAATGCGTAGATATATG GAAGAACACCGTGGCGAAGGCGGCTGCTGGTCTGGATTCTGACACTGAAGCACGAAA CCGTGGGGAGCAAATAGG	<i>Holdemanella</i>	NA
36	TACGTAGGGAGCAAGCGTTGTCCGGAATTAAGGAGCGTAGGCGGATTG GCAAGTCTGAGAGTGAATCCATGGGCTTAACCCATGAAGTGCATTTGAAACTGTTAGTCT TGAGTGAAGTAGAGGTAGGCGGAATTCGCGGTGTAGCGGTGAAATGCGTAGAGATCGG GAGGAACACCAAGTGGCGAAGGCGCCTACTGGGCTTTAACTGACGCTGAGGACGAAA GTGTGGGTAGCAAACAGG	<i>Incertae Sedis</i>	NA
37	TACGTATGGTGAAGCGTTATCCGGAATTAAGGAGCGTAGGTTGGCAAG GCAAGCCAGAAGTGAAGACCCGGGGCTCAACCCGCGGATTGCTTTGGAAGTGCATGC TAGAGTGCAGGAGGGGTGAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCGGAGGCGAAGGCGGCTACTGGACTGTAAGTACACTGAGGCTCGAAA CCGTGGGGAGCAAACAGG	<i>Lachnospiraceae</i> <i>ND3007 group</i>	NA
38	TACGTAGGTGGCAAGCGTTATCCGGAATTAAGGAGCGTAGGTTGG ATAAGTCTGATGTGAAAGCCTTTGGCTTAACCAAAGAAGTGCATCGGAAACTGTCAGAC TTGAGTGCAGAAGAGGACAGTGAAGTCCATGTGTAGCGGTGGAATGCGTAGATATATG GAAGAACACCAAGTGGCGAAGGCGGCTGCTGGTCTGCAACTGACGCTGAGGCTCGAAA CATGGGTAGCGAACAGG	<i>Lactobacillus</i>	<i>mucosae</i>



Table 3. Non-Certified Top 50 V4 16S rRNA sequences and Genus-Species Identifications (listed alphabetically by genus) in Vegetarian Stool

No.	Sequence	Genus	Species <sup>(a)</sup>
39	TACGTAGGCGCAAGCGTTGTCCGGAATTATTGGGCGTAAAGGGAGCGCAGGCGGGAA ACTAAGCGGATCTTAAAAAGTGCAGGGCTCAACCCCGTGTGGGGTCCGAAGTGGTTTC TTGAGTGCAGGAGAGGAAAGCGGAATTCCAGTGTAGCGGTGAAATGCGTAGATATTGG GAAGAACACCAGTGGCGAAGGCGCTTTCTGGACTGTAAGTACGCTGAGGCTCGAAAG CTAGGGTAGCAACGGG	<i>Megamonas</i>	NA
40	CACCGGCAGCTCTAGTGGTAGCAGTTTTTATTGGGCTAAAGCGTCCGTAGCCGGTTTAA TAAGTCTCTGGTAAAATCCTGCAGCTAACTGTGGGAATTGCTGGAGATACTATTAGACT TGAGATCGGGAGAGGTTAGAGGTACTCCAGGGTAGAGGTGAAATCTGTAATCCTGGG AGGACCGCTTGTGGCAAGGCGTCTGACTGGAACGATTCTGACGGTGAGGGACGAAAGC TAGGGGCGCAACCGG	<i>Methanobrevibacter</i>	<i>smithii</i>
41	CACCGGCAGCTCAAGTGGTAGCTGTTTTTATTGGGCTAAAGCGTTCGTAGCCGGTTTGA TAAGTCTTTGGTAAAAGCTTGTAGCTTAACTATAAGAATTGCTGAAGATACTGTCAGACT TGAAGTTCGGGAGAGGTTAGAGGTACTACCGGGTAGGGGTGAAATCCTATAATCCTGGG AGGACCCTGTGGCAAGGCGTCTAACTGGAACGATCTTACGGTGAGTAACGAAAGC CAGGGGCGCAACCGG	<i>Methanosphaera</i>	<i>stadtmanae</i>
42	TACGTAGGTGACAAGCGTTGTCCGGAATTACTGGGTGTAAGGGCGCGTAGGCGGACTG TCAAGTCAGTCGTGAAAATACCGGGGCTTAACCCCGGGGCTGCGATTGAAACTGACAGCC TTGAGTATCGGAGAGGAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGCTTTCTGGACGACAACTGACGCTGAGGCGCGAAA GTGTGGGGAGCAAACAGG	<i>Monoglobus</i>	NA
43	TACGTAGGTGGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGCGGTGAGGCGGGTAG ACAAGTCAGATGTGAAAATACCGGGGCTCAACTCCGGGCTGCATTTGAAACTGTATATC TTGAGTGTCCGAGAGGAAAGCGGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAG GAGGAACACCAGTGGCGAAGGCGCTTTCTGGACGATAACTGACGCTGAGGCGCGAAA GCGTGGGGAGCAAACAGG	<i>Monoglobus</i>	<i>pectinilyticus</i>
44	TACGTAGGGGGCTAGCGTTATCCGGAATTACTGGGCGTAAAGGGTGCCTAGGCGGTCTT TCAAGTCAGGAGTTAAAGGCTACGGCTCAACCGTAGTAAGCTCCTGATACTGTCTGACTT GAGTGCAGGAGAGGAAAGCGGAATTCAGTGTAGCGGTGAAATGCGTAGATATTGGG AGGAACACCAGTAGCGAAGGCGGCTTTCTGGACTGTAAGTACGCTGAGGCACGAAAGC GTGGGGAGCAAACAGG	<i>Peptoclostridium</i>	NA
45	TACGTAGGTGGCGAGCGTTGTCCGGAATTATTGGGCGTAAAGAGCATGTAGGCGGCTTA ATAAGTCGAGCGTAAAAATGCGGGGCTCAACCCCGTATGGCGCTGAAACTGTTAGGCT TGAGTGCAGGAGAGGAAAGGGGAATTCAGTGTAGCGGTGAAATGCGTAGATATTGG GAGGAACACCAGTGGCGAAGGCGCTTTCTGGACTGTGTCTGACGCTGAGATGCGAAAG CCAGGGTAGCAACGGG	<i>Phascolarctobacteri um</i>	<i>faecium</i>
46	TACGTAGGGGGCTAGCGTTATCCGGAATTACTGGGCGTAAAGGGTGCCTAGGTGGTTTC TTAAGTCAGAGGTGAAAGGCTACGGCTCAACCGTAGTAAGCCTTTGAAACTGGGAAACT TGAGTGCAGGAGAGGAGAGTGAATTCCTAGTGTAGCGGTGAAATGCGTAGATATTAGG AGGAACACCAGTTGCGAAGGCGGCTCTCTGGACTGTAAGTACACTGAGGCACGAAAGC GTGGGGAGCAAACAGG	<i>Romboutsia</i>	<i>ilealis</i>
47	TACGTAGGGGGCGAGCGTTATCCGGAATTACTGGGCGTAAAGCGCGCTAGGCGTCCCT TCAAGCGGCACCGTTCGAAAGCCGGGGCTCAACCCCGGAAGCGGGCGAACTGGGGGG ATCGAGTGCAGGTAGGGGAAGGCGGAATTCAGTGTAGCGGTGAAATGCGCAGATATCG GGAAGAACACCAGCGGCGAAGGCAGCTTCTGGGCGCCACTGACGCTGAGGCGCGAA AGCTGGGGAGCGAACAGG	<i>Slackia</i>	<i>piriformis</i>
48	TACGTAGGTCCCAGCGTTGTCCGGAATTATTGGGCGTAAAGCGAGCGCAGGCGGTTTG ATAAGTCTGAAGTTAAAGGCTGTGGCTCAACCATAGTTCGCTTTGAAACTGTCAAACCT GAGTGCAGAAAGGGAGGTGAATTCATGTGTAGCGGTGAAATGCGTAGATATATGG AGGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGTAAGTACGCTGAGGCTCGAAAGC GTGGGGAGCGAACAGG	<i>Streptococcus</i>	<i>salivarius</i>
49	AACGTAGGGTGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGAGCGCAGGCGGGAA GACAAGTTGGAAGTAAAAACCATGGGCTCAACCCATGAATTGCTTTCAAACCTGTTTTTC TTGAGTAGTGCAGAGGTAGATGGAATTCAGTGTAGCGGTGAAATGCGTAGATATCGG GAGGAACACCAGTGGCGAAGGCGGCTACTGGGACCAACTGACGCTGAGGCTCGAAAG GCATGGGTAGCAAACAGG	<i>Subdoligranulum</i>	NA
50	AACGTAGGGTGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGAGCGCAGGCGGGACC GGCAAGTTGGAAGTAAAACTATGGGCTCAACCCATAAATTGCTTTCAAACCTGCTGGC CTTGAGTAGTGCAGAGGTAGGTGGAATTCAGTGTAGCGGTGAAATGCGTAGATATCG GGAGGAACACCAGTGGCGAAGGCGACCTACTGGGACCAACTGACGCTGAGGCTCGAA AGCATGGGTAGCAAACAGG	<i>Subdoligranulum</i>	NA

<sup>(a)</sup> NA indicates a species was not assigned.

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
(1-Ethoxy-1-oxo-4-phenylbutan-2-yl)alanine	CEIWXEQZZZHLDM-UHFFFAOYSA-N
(2E,4E,6E)-11-(1,3-Benzodioxol-5-yl)-N-(2-methylpropyl)undeca-2,4,6-trienamide	ITXVWRWWWSDXOY-HNZFQPFYSA-N
(2S)-2-[(3-Methylbutanoyl)amino]pentanedioic acid	HCVIJONZMYVLAW-ZETCQYMHSA-N
(3-beta)-Allopregnanolone sulfate	MENQCIVHHONJLU-FZCSVUEKSA-N
(4-Methylphenyl)oxidanesulfonic acid	WGNKZGUSRVWRH-UHFFFAOYSA-N
1,2-Di-(9Z,12Z,15Z-octadecatrienoyl)-sn-glycero-3-phosphocholine	XXKFQTJOJZELMD-JICBSJGISA-N
1,2-Dioctadecanoyl-sn-glycerol	UHUSDOQQWJGJQS-QNGWXLQSA-N
1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine-N,N-dimethyl	XHPZRQBHFVLEJ-UNUIOPIBSA-N
1,2-Dioleoyl-sn-glycerol	AFSHUZFNMVJNKX-LLWMBOQKSA-N
1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamine	SLKDGVPOSSLUAI-PGUFJCEWSA-N
1,2-Dipalmitoyl-sn-glycero-O-ethyl-3-phosphatidylcholine cation	VBZSUWNESITEBV-KHBQWKRXSA-N
1,2-Dipentadecanoyl-sn-glycero-3-phosphocholine	LJARBVLDSOWRJT-PSXMRANNSA-N
1,2-Dipentadecanoyl-sn-glycero-3-phosphoethanolamine	SKVKIGSFTGVBOX-MGBGTMOVSA-N
1,3,7-Trimethyluric acid	BYXCFUMGEBZDDI-UHFFFAOYSA-N
1,4-Anhydro-6-O-[(9Z)-9-octadecenoyl]-D-glucitol	NWGKJDSIEKMTRX-AAZCQSIUSA-N
1,6-Hexamethylene-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	ZVVFVKJZNVSANF-UHFFFAOYSA-N
1,7-Dimethyluric acid	NOFNCLGCUJPKU-UHFFFAOYSA-N
13(S)-HOTrE	KLLGGGQNRVTBVSU-FQSPHKRJSA-N
13-Keto-9Z,11E-octadecadienoic acid	JHXAZBBVQSRKJR-BSZOFBHSSA-N
14-(acetyloxy)-6-(furan-3-yl)-12-hydroxy-1,7,11,15,15-pentamethyl-5-oxo-3-oxapentacyclo[8.8.0.0.2,4.0.2,7.0]octadecan-18-yl acetate	PVCLMZBWMWIHKX-UHFFFAOYSA-N
1a,1b-Dihomo prostaglandin E1	YMDDELUTDBQEMT-QZCLESEGSA-N
1-Behenoyl-2-hydroxy-sn-glycero-3-phosphocholine	UIINDYGXBHJQHX-GDLZYMKVSA-N
1-Dodecyl-2-pyrrolidinone	NJPPAIBZIHJDO-UHFFFAOYSA-N
1-Hexadecyl-2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycero-3-phosphocholine	DUUSFCFZBREELS-LXDDVLOTSAN
1-Hexadecyl-2-(9Z-octadecenoyl)-sn-glycero-3-phosphocholine	SIEDNCDNGMIKST-IYEJTHTFSA-N
1-Isopropyl-5-oxo-3-pyrrolidinecarboxylic acid	YKWIPHFVESIOGN-UHFFFAOYSA-N
1-Monolinolenin	GGJRAQULURVTAJ-PDBXOOCHSA-N
1-Monolinoleoyl-rac-glycerol	WECGLUPZRHILCT-HZJYTTRNSA-N
1-Myristoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine	RPXHXZNGZBHSMJ-GOSISDBHSA-N
1-Oleoyl-2-hydroxy-sn-glycero-3-phospho-(1'-rac-glycerol)	FQQQKGAFAQIIGLQ-VYFUBJQISA-N
1-Oleoyl-2-linoleoyl-rac-glycerol	BLZVZPYMHLXLHG-RQOIEFAZSA-N
1-O-Octadecyl-sn-glyceryl-3-phosphorylcholine	XKBJVQHMEXMFDZ-AREMUKBSSA-N
1-Palmitoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine	YVYMBNSKXOXSKW-HXUWFJFHSAN
1-Palmitoyl-2-linoleoyl-rac-glycerol	SVXWJFFKLMLOHO-BCTRXSSUSA-N
1-Palmitoyl-2-linoleoyl-sn-glycero-3-phosphocholine	JLPULHDHAOZNQI-ZTIMHPMXSA-N
1-Palmitoyl-2-myristoyl-sn-glycero-3-phosphocholine	UIXXHROAQSBOV-PSXMRANNSA-N
1-Palmitoyl-2-oleoyl-sn-glycerol	YEJYLHKQOBOSCP-OZKTZCCCSA-N
1-Palmitoyl-3-oleoyl-sn-glycero-2-phosphoethanolamine	BLMYNJDXEOSYBR-OTMQOQFLSA-N
1-Palmitoyl-sn-glycero-3-phosphocholine	ASWBNKHCZGQVJV-HSZRJFAPSA-N
1-Pentadecanoyl-sn-glycero-3-phosphocholine	RJZVWDTYEWCUAR-JOCHJYFZSA-N
1-Stearoyl-2-arachidonoyl-sn-glycero-3-phosphocholine	PSVRFUPOQYJOOZ-RYIOQAQXSA-N
1-Stearoyl-2-hydroxy-sn-glycero-3-phosphocholine	IHNKQIMGVNPMTC-RUZDIDTESA-N
1-Stearoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine	BBYWOYAFBUOUIFP-JOCHJYFZSA-N

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
1-Stearoyl-2-oleoyl-sn-glycero-3-phosphocholine	ATHVAWFAEPLPPQ-VRDBWYNSSA-N
1-Stearoyl-2-oleoyl-sn-glycero-3-phosphoethanolamine	JQKOHZRNEOQNJE-DJEJVYNPSA-N
2-((3aR,4S,7R,7aS)-1,3-Dioxohexahydro-1H-4,7-methanoisoindol-2(3H)-yl)propanoic acid	REFMTLIXGKZVDF-RQOWMOBWSA-N
2-(14,15-Epoxyeicosatrienoyl) glycerol	LPMVKZXODWQHJGJ-ILYOTBPNSA-N
2-(1-Methyl-1H-pyrrol-2-yl)acetic acid	SYYOUHJJSOLSJD-UHFFFAOYSA-N
2-(Hexadecylamino)ethanol	SIFHZKKXWMJWOB-UHFFFAOYSA-N
2-(O-beta-D-Glucopyranosyl)atractyligenin	ZUDBDCBPZHGAEL-ICRASABDSA-N
2,3,4,9-Tetrahydro-1H-beta-carboline-3-carboxylic acid	FSNCEEGOMTYXKY-UHFFFAOYSA-N
2,3-Dihydroxypropyl octadecanoate	VBICKXHEKHSIBG-UHFFFAOYSA-N
2,4-Bis(1,1-dimethylethyl)phenol phosphate	GUDSEWUOWPVZPC-UHFFFAOYSA-N
2-[(2R,4aS,8S,8aS)-8-{2-[(4aS,7R,8aR)-7-(1-Carboxyvinyl)-1-hydroxy-4a-methyl-2-oxo-1,2,4a,5,6,7,8,8a-octahydro-1-naphthalenyl]ethyl}-4a-methyl-7-oxo-1,2,3,4,4a,7,8,8a-octahydro-2-naphthalenyl]acrylic acid	BSSWIRVAMSGQMG-RTTXQYISSA-N
2-[(3R,4S)-3-{[5-(Cyclohexylmethyl)-1,2-oxazol-3-yl]methyl}-4-piperidinyl]-N-[2-(4-morpholinyl)ethyl]acetamide	CBYSOGZECVBHQN-SFTDATJTSA-N
2-Arachidonoyl glycerol	RRCRCTBLIHCHWDZ-DOFZRALJSA-N
2'-Deoxyadenosine	OLXZPDWKRNYJJZ-RRKCRQDMSA-N
2'-Deoxyinosine	VGONTNSXDCQUGY-JXBXBZBNISA-N
2-Linoleoyl-1-palmitoyl-sn-glycero-3-phosphoethanolamine	HBZNVZIRJWODIB-NHCUFCNUSA-N
2-Oleoyl-1-palmitoyl-sn-glycero-3-phosphocholine	WTJKGGKOPKCXLL-VYOBOKEXSA-N
2-Palmitoyl-rac-glycerol	BBNYCLAREVXOSG-UHFFFAOYSA-N
3-(1H-Imidazol-4-yl)propanoic acid	ZCKYOWGFRHAZIQ-UHFFFAOYSA-N
3,4-Dihydroxyhydrocinnamic acid	DZAUWHJDUNRCTF-UHFFFAOYSA-N
3-[5-(2-Methylpropyl)-3,6-dioxopiperazin-2-yl]propanoic acid	CSRXCVLPMJBQIM-UHFFFAOYSA-N
3-beta-Hydroxy-5-cholestenoic acid	WVXOMPRLWLXFAP-AMQKJUDNSA-N
3-Hydroxybutyric acid	WHBMMWSBFZVSSR-UHFFFAOYSA-N
3-Hydroxymyristic acid	ATRZYOYKSNPPBF-UHFFFAOYSA-N
3-Hydroxypyridine	GRFNBEZIAWKNCO-UHFFFAOYSA-N
3-Hydroxyurs-12-en-23-oic acid	NBGQZFQREPIKMG-UHFFFAOYSA-N
3-Sulfopropanoic acid	OURSFPZPOXNNKX-UHFFFAOYSA-N
4,4-Dimethylcholest-8(9),24-dien-3.beta.-ol	CHGIKSSZNBCNDW-QGBOJXOESA-N
4-Cholestenone	NYOXRYXRWJDKP-GYKMGIIIDSA-N
4-Hydroxyomeprazole sulfide	LVUFHVGKGMRSQW-UHFFFAOYSA-N
4-Pyridoxic acid	HXACOUQIXZGNBF-UHFFFAOYSA-N
5-(Dimethylamino)pentanoic acid	UYZSNVLEDLCWGU-UHFFFAOYSA-N
5-[(10Z)-14-(3,5-dihydroxyphenyl)tetradec-10-en-1-yl]benzene-1,3-diol	PFIQXUYXVYERO-ALCCZGGFSA-N
5-Acetylamino-6-amino-3-methyluracil	POQOTWQIYXNAT-UHFFFAOYSA-N
5-Hydroxyindole-3-acetic acid	DUUGKQCEGZLZNO-UHFFFAOYSA-N
5-O-Feruloylquinic acid	RAGZUCNPTLULOL-KQJPBSFVSA-N
5-Oxotetrahydro-2-furancarboxylic acid	QVADRSWDTZDDGR-UHFFFAOYSA-N
6-Cyclopentacycloundecenecarboxylic acid, 1,2,3,3a,4,5,6,7,8,9,12,12a-dodecahydro-3a,10-dimethyl-1-(1-methylethenyl)-	FVDVQQJLECWRKH-NVNXTCNLSA-N
6-Methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide	YGCFIWIQZPHFLU-UHFFFAOYSA-N
8-(3-Octyl-2-oxiranyl)octanoic acid	IMYZYCNQZDBZBQ-UHFFFAOYSA-N
9-Nitrooleate	CQOAKBVRRVHWKV-SAPNQHFASA-N
Allyl 4-amino-1-piperidinecarboxylate	XKLGRJGBMKOQDK-UHFFFAOYSA-N

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
alpha,alpha-Dilaurin	KUVAEMGNHJQSMH-UHFFFAOYSA-N
alpha-Hyodeoxycholic acid methyl ester	BWDRDVHYVJQWBO-QWXHOCAMSA-N
alpha-Tocopheryl acetate	ZAKOWWREFLAJOT-PDNQPUDYSA-N
Anacardic acid	ADFWQBGTDJIESE-UHFFFAOYSA-N
Aspartic acid	CKLJMWTZIZZHCS-UHFFFAOYSA-N
Asp-Pro	UKGGPJNBONZZCM-WDSKDSINSA-N
Bacilysocin	DIGHTWUQPWHBPG-UHFFFAOYSA-N
Benzenesulfonic acid, 4-(acetylamino)-	ZQPVMSLLKQTRMG-UHFFFAOYSA-N
Benzylidimethyldodecylammonium cation	CYDRXTMLKJDRQH-UHFFFAOYSA-N
Benzylidimethylstearylammmonium cation	FWLORMQUOWCQPO-UHFFFAOYSA-N
beta-Hyodeoxycholic acid	DGABKXLVXPYZII-MMTMODRTSA-N
beta-Muricholic acid	DKPMWHFRUGMUKF-CRKPLTDNSA-N
beta-Sitosterol	KZJWDPNRJALLNS-VJSFXXLFSAN
Bilirubin	BPYKTIZUTYGOLE-IFADSCNNSA-N
Biliverdin	QBUVFDKTZJNUPP-BBROENKCSA-N
Bis-(3,4-dimethyldibenzylidenesorbitol)	YWEWWNPYDDHZDI-JKKKTNRVSA-N
CAY10683	HTOYBIILVCHURC-UHFFFAOYSA-N
Chenodeoxycholic acid	RUDATBOHQWOJDD-BSWAIDMHSA-N
Cholan-24-oic acid, 12-hydroxy-3-oxo-	WMUMZOAFCDOTRW-UHFFFAOYSA-N
Cholan-24-oic acid, 12-hydroxy-3-oxo-, methyl ester	LOJPGRHPJBGMMF-JJNSWQHQA-N
Cholestan-3-ol, (3 alpha,5 beta)-	QYIXCDOBOSTCEI-VZNRSCWSA-N
Cholestan-3-one, (5 alpha)-	PESKGJQREUXSRR-UXIWKSIWSA-N
Cholesterol	HVYWMOMLDIMFJA-DPAQBDIFSA-N
Cholesterol 3-sulfate	BHYOQNUELFTYRT-DPAQBDIFSA-N
cis,cis-9,12-Octadecadien-1-ol	JXNPEDYJTDQORS-HZJYTRNSA-N
cis-10-Nonadecenoic acid	BBOWBNGUEWHNQZ-KTKRTIGZSA-N
cis-13-Eicosenoic acid	URXZXNYJPAJJOQ-FPLPWBNLSA-N
cis-Vaccenic acid	UWHZIFQPBDJPM-FPLPWBNLSA-N
Citrulline	RHGKLRLOHDJJDR-UHFFFAOYSA-N
Cocamidopropyl betaine	MRUAUOIMASANKQ-UHFFFAOYSA-N
Crotonic acid	LDHQCZJRKDOVOX-NSCUHMNNSA-N
Decaethylene glycol	DTPCFIHYWYONMD-UHFFFAOYSA-N
Dehydropiperonaline	KAYVDASZRFLFRZ-PQECNABGSA-N
Deoxycholic acid	KXGVEGMKQFWNSR-LLQZFEROSA-N
D-erythro-Sphinganine	OTKJDMGTUTTYMP-ZWKOTPCHSA-N
D-Glucosyl-beta-1,1-N-palmitoyl-D-erythro-sphingosine	VJLLLMIZEJJZTE-NNTBDIYSA-N
Didecyldimethylammonium	JGFDZZLUDWMUQH-UHFFFAOYSA-N
Dihomo-gamma-linolenic acid methyl ester	QHATYOWJCAQINT-JPFHKJGASA-N
Dimethyl azelate	DRUKNYVQGHEHETPO-UHFFFAOYSA-N
DL-beta-Hydroxypalmitic acid	CBWALJHXHCJYTE-UHFFFAOYSA-N
DL-Indole-3-lactic acid	XGILAAAMKEQUXLS-UHFFFAOYSA-N
DL-Serine, succinate (ester)	ZAHSBRLHJR VFAU-UHFFFAOYSA-N
D-Mannosamine	FZHXRIBWMQPQF-KVTDHHQDSA-N
Dodecanedioic acid	TVIDDXQYHWJXFK-UHFFFAOYSA-N
D-Sphingosine	WWUZIQQURGPMPG-KRWOKUGFSA-N

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
Enalapril	GBXSMTUPTTWBMN-XIRDDKMYSA-N
Enalaprilat	LZFMUMEGBBDDTC-QEJZJMRPSA-N
Epilupeol	MQYXUWHLBZFFQO-ISZJTHHZSA-N
Ergocalciferol	MECHNRXZTMCUDQ-ANGGWTPUSA-N
Erioglaucine	CTRXTDYTAAKVSM-UHFFFAOYSA-N
Erucamide	UAUDZVJPLUQNMU-KTKRTIGZSA-N
Erythrodiol	PSZDOEIIJFCFE-KWVOMAKGSA-N
Ethanesulfonic acid, 2-[(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)amino]-	IZRUXXTXKZAGQQ-UHFFFAOYSA-N
Fucosterol	OSELKOCHBMDKEJ-JUGJNGJRSA-N
Geranylinalool	IQDXAJNQKSPGB-HQSZAHFGSA-N
Ginkgolic acid I	YXHVCZZLWZYHSA-FPLPWBNSA-N
Glu-Ile	SNFUTDLOCQQRQD-LKEWCRSYSA-N
Glycerol monooleate	RZRNAYUHWVFMIP-KTKRTIGZSA-N
Glycerol trilaurate	VMPHSYLJUKZBJJ-UHFFFAOYSA-N
Glycodeoxycholic acid	WVULKSPCQVQLCU-UHFFFAOYSA-N
Glycyl-L-norleucine	XVUIZOUTLADVIH-UHFFFAOYSA-N
Gly-Val	STKYPAFSDFAEPL-LURJTMIESA-N
Guanine	UYTPUPDQBNUYGX-UHFFFAOYSA-N
Heptadecaphinganine	KFQUQCFJDMSIJF-DLBZAZTESA-N
Ile-Glu	KTGFOCFYOZQVRJ-ACLDMZEESA-N
Ile-Phe	WMDZARSFSMZOO-UHTWSYAYSA-N
Ile-Ser	TWVKGYNQQAUNRN-ACZMJKKPSA-N
Ile-Thr	DRCKHKZYDLJYFQ-YWIKKCBGSA-N
Ile-Val	BCXBIONYYJCSDF-CIUDSAMLSA-N
Isobutyric acid	KQNPFTWMSNSAP-UHFFFAOYSA-N
Kaurane-17,18-dioic acid, 18-methyl ester, (4 alpha,16 alpha)-	YDAVVXOXSSFVFP-BBBHLOGDSA-N
Lactosyl-Ceramide(d18:1/22:0)	QYWVASPEUXEHSY-DYGYHFHFSAN
Laurylsulfuric acid	MOTZDAYCYVMXPC-UHFFFAOYSA-N
Linoleic Acid	OYHQOLUKZRVURQ-HZJYTTRNSA-N
Linoleic acid-biotin	TXYWCIYPXRNWJU-MJDXKYDGSAN
Lithocholic acid	SMEROWZSTRWXGI-HVATVPOCSAN
Lithocholyglycine	XBSQTYHEGZTYJE-OETIFKLTSAN
Lupeol	MQYXUWHLBZFFQO-QGTGJCAVSA-N
Methionine sulfoxide	QEFRNWWLZKMPFJ-YGVKFDHGSA-N
Methyl deoxycholate	ZHUOOEGSSFNTNP-JMKDMENQSAN
Methyl hydrogen azelate	VVWPSAPZUZXYCM-UHFFFAOYSA-N
Methyl linolenate	DVWSXZIHUSUZZKJ-YSTUJMKBSAN
Myristyl sulfate	URLJMZWXTZTZR-UHFFFAOYSA-N
N-(14-Methylpentadecanoyl)phenylalanine	WICAPTTWPBEVPW-UHFFFAOYSA-N
N-(6-Methyl-2-oxohexahydro-4-pyrimidinyl)urea	CZAUMIGWDFREBR-UHFFFAOYSA-N
N-(Octadecanoyl)sphing-4-enine-1-phosphocholine	LKQLRGMMMAHREN-NWBJSICCSAN
N,N-Dimethylsphingosine	YRXOQXUDKDCXME-YIVRLKKSAN
N2-Isobutyryl-2'-deoxyguanosine	SIDXEQFMTMICKG-UHFFFAOYSA-N
N6-Palmitoyl-L-lysine	IWKZTTDNVPAHNP-FQEVSTJZSAN
N-Acetyl-.beta.-D-mannosamine	OVRNDRQMDRJTHS-OZRXXBMAMSAN

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
N-Acetyldihydrosphingosine	CRJGESK KUOMBCT-VQTJNVASSA-N
N-Acetyl-D-norleucine	JDMCEGLQFSOMQH-SSDOTTSWSA-N
N-Acetyl-L-glutamine	KSMRODHGGIIXDV-YFKPBYRVSA-N
N-Acetyl-L-glutamic acid	RFMMMVDNIPUKGG-YFKPBYRVSA-N
N-alpha-Acetyl-L-lysine	VEYYWZRYIYDQJM-ZETCQYMHSA-N
N-Benzyl-N,N-dimethyl-1-tetradecanaminium cation	WNBGYVXHFTYOBY-UHFFFAOYSA-N
N-Docosanoyl-4-sphingenyl-1-O-phosphorylcholine	FJJANLYCZUNFSE-TWKUQIQBSA-N
N-epsilon-Acetyl-L-lysine	DTERQYGMUDWYAZ-ZETCQYMHSA-N
Nervonoyl ethanolamide	LISKWSFNVJTQKH-KTKRTIGZSA-N
N-Hexadecyl sulfate	LPTIRUACFKQDHZ-UHFFFAOYSA-N
N-Hexanoylsphingosine	NPRJSFWNFTXXQC-QFWQFVLDSA-N
Nitrobenzene	LQNUZADURLCDLV-UHFFFAOYSA-N
N-Lauroyl-D-erythro-sphinganine	UHWYQXNZIBLESO-URLMMPGGSA-N
N-L-gamma-Glutamyl-L-leucine	MYFMARDICOWMQP-UHFFFAOYSA-N
N-Methyl-L-phenylalanine	SCIFESDRCALIIM-VIFPVBQESA-N
N-Myristoylsphinganine	UDTSZXVRDXQARY-IOWSJCHKSA-N
N-Nervonoyl-D-erythro-sphingosylphosphorylcholine	WKZHECFHXL TOLJ-QYKFWSDDSA-N
N-Octanoylsphingosine	APDLCSPGWPLYEQ-WRBRXSDHSA-N
N-Oleoyl-4-sphingenine	OBFSLMQLPNKVRW-RHPAUOISSA-N
N-Oleoyl-D-erythro-sphinganine	MJQIARGPQMNBGT-WWUCIAQXSA-N
N-Oleylethanolamine	BOWVQLFMWHZBEF-KTKRTIGZSA-N
Nonaethylene glycol	YZUUTMGDONTGTN-UHFFFAOYSA-N
Nonanedioic acid	BDJRBEYXGGNYIS-UHFFFAOYSA-N
N-Palmitoyl-D-sphingosine	YDNKGFDDKRUOPY-TURZORIXSA-N
N-Stearoylsphinganine	KZTJQXAANJHSCE-OIDHKYIRSA-N
N-Tetracosenoyl-4-sphingenine	VJSBNBOSZJDKB-KPEYJIHVSA-N
Octaethylene glycol	GLZWNFNQMJAZGY-UHFFFAOYSA-N
Oleamide	FATBGEAMYMYZAF-KTKRTIGZSA-N
Oleoyl ethylamide	JZJYYCFYGXPUMF-QXMHVHEDSA-N
Oleoylserotonin	LCQKHZYXPLVBI-KTKRTIGZSA-N
Palmitoyl sphingomyelin	RWKUXQNLWDTLSLO-GWQJGLRPSA-N
Palmitoyleicosapentaenoyl phosphatidylcholine	KLTHQSWIRFFBRI-KOQZQRJKSA-N
Palmitoyl-L-carnitine	XOMRRQXKHYMOC-OAQYLSRUSA-N
Pantothenic acid	GHOKWGTUZJEAQD-UHFFFAOYSA-N
PEG Monooleate n8	RRMPJCDMVAUQGF-MDZDMXLPSA-N
PEG14	AKWFJQNBHYVIPY-UHFFFAOYSA-N
PEG16	OWTQQPNDSWCHOV-UHFFFAOYSA-N
Pheophorbide a	NSFSLUUZQIAOOX-QEWKCGBTSA-N
Phe-Val	IEHDJWSAXBGJIP-RYUDHWBXSAN
Piperchabamide B	CHOLQJRMZGPNC-QHKWOANTSAN
Pipernonaline	PKLGRWSJBLGIBF-JMQWPVDRSAN
Piperolein A	MIWPBXQTBYPJEF-XXBARRHUSAN
Poly THF n8	RPGZMBUUQBRFFX-UHFFFAOYSA-N
Pregnenolone sulfate	DIJBBUIOWGGQOP-QGVNFLHTSAN
Prostaglandin K2	LGMXPVXJSFPPTQ-DJUJBXLVSAN

Table 4. Non-Certified Metabolite Identifications of Omnivore Stool by LC-MS/MS

Metabolite ID	InChiKey
Pyridoxine	LXNHXLLTXMVWPM-UHFFFAOYSA-N
Pyruvic acid	LCTONWCANYUPML-UHFFFAOYSA-N
Retrofractramide A	BPSWISYORIWKCT-FCGWLDPVSA-N
Riboflavin	AUNGANRZJHBGPY-SCRDCRAPSA-N
Sarsasapogenin	GMBQZIIUCVWOC-DWWASVFFGSA-N
Sebacic acid	CXMXRPHRNRROMY-UHFFFAOYSA-N
Stearamide	LYRFLYHAGKPMFH-UHFFFAOYSA-N
Stearic Acid	QIQXTHQIDYTRFH-UHFFFAOYSA-N
Stearoyl ethanolamide	OTGQIQQTPXJQRG-UHFFFAOYSA-N
Suberic acid	TYFQFVWCELRYAO-UHFFFAOYSA-N
Sucralose	BAQAVOSOZGMPRM-QBMZZYIRSA-N
Sucrose	CZMRCDWAGMREC-NUGDNZRGBSA-N
Tacrolimus	QJJXYPPXXYFBGM-LJIGMGMYSA-N
Tauroursodeoxycholic acid	BHTRKEVKTKCXOH-OGTVOWCVSA-N
Termitomycamide E	JTSNNDBVDQFVEG-HZJYTTRNSA-N
Testosterone sulfate	WAQBISPOEAOCOG-DYKIIFRCSA-N
Tetradecanedioic acid, 5,6-dihydroxy-	JCOCIXAHAFALHI-UHFFFAOYSA-N
Tetrahydroharman-3-carboxylic acid	ZUPHXNBLQCSEIA-UHFFFAOYSA-N
Thiamine cation	JZRWCGZRTZMZEH-UHFFFAOYSA-N
Threonine	AYFVYJQAPQTCCC-UHFFFAOYSA-N
Thr-Glu	BECPPKYKPSRKCP-JCGDXUMPSA-N
Thr-Leu	BQBCIBCLXBKYHW-BIIVOSGPSA-N
Tildipirosin	HNDXPZPJZGTJLJ-UEJFNEDBSA-N
Tomatidine	XYNPYHXGMWJBLV-KLPIGKMYSAN
trans-Petroselinic acid	CNVZJPUDSLNTQU-OUKQBFOZSA-N
trans-Vaccenic acid	UWHZIFQPPBDJPM-BQYQJAHWSA-N
Tridemorph	YTOPFCCWCISOHFV-UHFFFAOYSA-N
Triethylene glycol bis(2-ethylhexanoate)	FRQDZJMEHSJOPU-UHFFFAOYSA-N
Trihydroxycholestanoic acid	CNWPIIOQKZNXBB-VCVMUKOKSA-N
Trilinolein	HBOQXIRUPVQLKX-BBWANDEASA-N
Tuberonic acid	RZGFUGXQKMEMOO-BSANDHCLSA-N
Uracil	ISAKRJDGNUQOIC-UHFFFAOYSA-N
Uric acid	LEHOTFFKMJEONL-UHFFFAOYSA-N
Urobilin	KDCCOOGTVSRCHX-UYMYUHGCSA-N
Urocanic acid	LOIYMIARKYCTBW-OWOJBTEDSA-N
Val-Ala	HSRXSKHRSXRCFC-WDSKDSINSA-N
Val-Glu	UPJONISHZRADBH-POYBYMJQSA-N
Val-Ile	PNVLWFYAPWAQMU-DJLDLDEBSA-N
Val-Leu	XCTHZFGSVQBHBW-UHFFFAOYSA-N
Val-Val	KRNYOVHEKOBTEF-UHFFFAOYSA-N
Xanthine	LRFVTYWOQMYALW-UHFFFAOYSA-N
Xanthurenic acid	FBZONXHGGPHHIY-UHFFFAOYSA-N

Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS

Metabolite	InChiKey
alpha-Tocopherol	GVJHHUAWPYXKBD-IEOSBIPESA-N
(15:3)-Anacardic acid	QUVGEKPNSCFQIR-UTOQUPLUSA-N
(1S,2S,3aR,4S,5S,9R,11R,13aS)-4,9,11-tris(acetyloxy)-3a-hydroxy-2,5,8,8,12-pentamethyl-1H,2H,3H,3aH,4H,5H,8H,9H,10H,11H,13aH-cyclopenta[12]annulen-1-yl benzoate	BRVXVMOWTHQKHC-OTOOIOIQSA-N
(2-{4-[(R)-(4-chlorophenyl)(phenyl)methyl]-1-piperazinyl}ethoxy)acetic acid	ZKLPARSLTMPFCP-OAQYLSRUSA-N
(2E,4E,6E)-11-(1,3-Benzodioxol-5-yl)-N-(2-methylpropyl)undeca-2,4,6-trienamide	ITXVWRWWWSDXOY-HNZFQPFYSA-N
(2S)-2-[(3-Methylbutanoyl)amino]pentanedioic acid	HCVIJONZMYVLAW-ZETCQYMHSA-N
(2S-,cis)-5-Benzyl-3,6-dioxo-2-piperazineacetic acid	VNHJXYUDIBQDDX-UWVGGRRQHSA-N
(3-beta)-Allopregnanolone sulfate	MENQCIVHHONJLU-FZCSVUEKSA-N
(3-Oxo-2,3-dihydro-4H-1,4-benzoxazin-4-yl)acetic acid	POGLODLVBYOXAO-UHFFFAOYSA-N
(4-Methylphenyl)oxidanesulfonic acid	WGNAKZGUSRVWRH-UHFFFAOYSA-N
(4S)-4-Amino-5-hydroxypentanoic acid	JPYGFLFUDLRNKX-BYPYZUCNSA-N
(6E,10Z,14E)-6,14-Dimethyl-3-methylidene-2-oxo-3a,4,5,8,9,12,13,15a-octahydrocyclootetradeca[b]furan-10-carboxylic acid	SORYERHBQFTRIK-AMVXUGKJSA-N
(Carboxymethyl)dodecyldimethylammonium cation	DVEKCXOJTLDBFE-UHFFFAOYSA-O
1,1-Dimethyl-2,3,4,9-tetrahydro-1H-beta-carboline-3-carboxylic acid	CWGHZIOJFVTEPN-UHFFFAOYSA-N
1,2-Dihexadecanoyl-3-(9Z-octadecenoyl)-sn-glycerol	YHMDGPZOSGBQRH-YYSDVFPESA-N
1,2-Dilinoleoyl-sn-glycero-3-phosphocholine	FVXDQWZBHIXIEJ-LNDKUQBDSA-N
1,2-Dimyristoyl-sn-glycerol	JFBCSFJKETUREV-LJAQVGFWSA-N
1,2-Dioctadecanoyl-sn-glycerol	UHUSDOQQWJGJQS-QNGWXLTQSA-N
1,2-dioleoyl-sn-glycero-3-phosphatidylcholine	SNKAWBJQDLSFF-NVKMUCNASAN
1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine	MWRBNPKJOOWZPW-NYVOMTAGSA-N
1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine-N,N-dimethyl	XHPZRQBHFOVLEJ-UNUIOPIBSA-N
1,2-Dioleoyl-sn-glycerol	AFSHUZFNMVJNKX-LLWMBOQKSA-N
1,2-Dipentadecanoyl-sn-glycero-3-phosphocholine	LJARBVLDSSWRJT-PSXMRANNSA-N
1,3-Diolein	DRAWQKGUORNASA-CLFAGFIQSA-N
1,7-Dimethyluric acid	NOFNCLGCUJPKU-UHFFFAOYSA-N
12-Methoxycarnosic acid	QQNSARJGBPMQDI-MZVUKIKXSA-N
13-cis-Retinol	FPIPGXGPPQFEQ-HWCYFHEPSA-N
18-beta-Glycyrrhetic acid	MPDGHEJMBKOTSU-YKLVYJNSSA-N
1-Arachidoyl-2-hydroxy-sn-glycero-3-phosphocholine	UATOAILWGVYRQS-HHHXNRCGSA-N
1H-Indole-3-propanoic acid	GOLXRNDWAUTYKT-UHFFFAOYSA-N
1-Methyl-3,6-(1H,2H)-pyridazinedione	UAECOHJYXUJDOF-UHFFFAOYSA-N
1-Methyluric acid	QFDRTQONISXGJA-UHFFFAOYSA-N
1-Monolinolenin	GGJRAQULURVTAJ-PDBXOOCHSA-N
1-Octadecanoyl-2-octadecenoyl-sn-glycero-3-phosphocholine	ATHVAWFAEPLPPQ-QPOMNCEOSA-N
1-O-Hexadecyl-2-O-acetyl-sn-glyceryl-3-phosphorylcholine	HVAUUPRFYPCOCA-AREMUKBSSA-N
1-Oleoyl-2-linoleoyl-rac-glycerol	BLZVZPYMHLXLHG-RQOIEFAZSA-N
1-Oleoyl-2-palmitoyl-rac-glycerol	DOZKMFVMCATMEH-ZCXUNETKSA-N
1-Oleoyl-sn-glycero-3-phosphoethanolamine	PYVVRVRFVLRNLY-MZMPXXGTSA-N
1-Palmitoyl-2-docosahexaenoyl-sn-glycero-3-phosphocholine	IESVDEZGAHUQJU-ZLBXKVHBSA-N
1-Palmitoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine	YVYMBNSKXOXSKW-HXUWFJFHSAN
1-Palmitoyl-2-linoleoyl-rac-glycerol	SVXWJFFKLMLOHO-BCTRXSSUSA-N
1-Palmitoyl-2-linoleoyl-sn-glycero-3-phosphocholine	JLPULHDHAOZNQI-ZTIMHPMXSA-N
1-Palmitoyl-2-oleoyl-3-linoleoyl-rac-glycerol	KGLAHZTWGPHKFF-FBSASISJSA-N



Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS

Metabolite	InChiKey
1-Palmitoyl-2-oleoyl-sn-glycerol	YEJYLHKQOBOSCP-OZKTZCCCSA-N
1-Palmitoyl-sn-glycero-3-phosphocholine	ASWBNKHCZGQVJV-HSZRJFAPSA-N
1-Pentadecanoyl-sn-glycero-3-phosphocholine	RJZVWDTYEWCUAR-JOCHJYFZSA-N
1-Stearoyl-2-hydroxy-sn-glycero-3-phosphocholine	IHNKQIMGVNPMTC-RUZDIDTESA-N
1-Stearoyl-2-hydroxy-sn-glycero-3-phosphoethanolamine	BBYWOYAFBUOUFP-JOCHJYFZSA-N
1-Stearoyl-2-linoleoyl-sn-glycero-3-phosphoethanolamine	YDTWOEYVDRKKCR-KNERPIHNSA-N
1-Stearoyl-2-oleoyl-sn-glycero-3-phosphocholine	ATHVAWFAEPLPPQ-VRDBWYNSSA-N
2-({[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl}sulfanyl)-1H-benzimidazole	CCHLMSUZHFPSC-UHFFFAOYSA-N
2'-(4-Methylumbelliferyl)-.alpha.-D-N-acetylneuraminic acid	KKDWIUJBUSOPGC-GKHMPSLRSA-N
2-(Hexadecylamino)ethanol	SIFHZKXWMJWOB-UHFFFAOYSA-N
2-(O-beta-D-Glucopyranosyl)atractyligenin	ZUDBDCBPZHGAEL-ICRASABDSA-N
2,3,4,9-Tetrahydro-1H-beta-carboline-3-carboxylic acid	FSNCEEGOMTYXKY-UHFFFAOYSA-N
2,3-Dihydroxypropyl octadecanoate	VBICKXHEKHSIBG-UHFFFAOYSA-N
2,4-Bis(1,1-dimethylethyl)phenol phosphate	GUDSEWUOWPVZPC-UHFFFAOYSA-N
2-[(2R,4aS,8S,8aS)-8-{2-[(4aS,7R,8aR)-7-(1-Carboxyvinyl)-1-hydroxy-4a-methyl-2-oxo-1,2,4a,5,6,7,8,8a-octahydro-1-naphthalenyl]ethyl}-4a-methyl-7-oxo-1,2,3,4,4a,7,8,8a-octahydro-2-naphthalenyl]acrylic acid	BSSWIRVAMSGQMG-RTTXQYISSA-N
2-[3-[3-Hydroxy-4-(4-hydroxyphenyl)-2,5-dimethoxyphenyl]-5-oxo-2H-furan-2-yl]acetic acid	CLNCCYGZTAZYLJ-UHFFFAOYSA-N
24,25-Epoxy lanost-7-ene-3,23-diol	UMTABACRBSGXGK-UHFFFAOYSA-N
2'-Deoxyadenosine	OLXZPDWKRNYJJZ-RRKCRQDMSA-N
2'-Deoxyinosine	VGONTNSXDCQUGY-JXBXBZNISA-N
2-Hydroxypalmitic acid	JGHSBPIZNUXPLA-UHFFFAOYSA-N
2-Linoleoyl-1-palmitoyl-sn-glycero-3-phosphoethanolamine	HBZNVZIRJWODIB-NHCUFNUSA-N
2-Oleoyl-1-palmitoyl-sn-glycero-3-phosphocholine	WTJKGGKOPKCXLL-VYOBOKEXSA-N
2-Palmitoyl-rac-glycerol	BBNYCLAREVXOSG-UHFFFAOYSA-N
2-Thio-acetyl MAGE	SJNRNWWBXZOALQ-OAQYLSRUSA-N
3-(1H-Imidazol-4-yl)propanoic acid	ZCKYOWGFRHAZIQUHFFFAOYSA-N
3-(3-Hydroxyphenyl)-2-oxopropanoic acid	PNYWALDMLUDDTA-UHFFFAOYSA-N
3-(Tetradecylamino)-1-propanol	FDZNCUTOMWCJE-UHFFFAOYSA-N
3,7,12-Trihydroxycholan-24-oic acid (stereoisomer unknown)	BHQCFYRZLCQQ-UHFFFAOYSA-N
3,7-Dimethyluric acid	HMLZLHKHNBLJLD-UHFFFAOYSA-N
3,7-Dimethyluric acid	HMLZLHKHNBLJLD-UHFFFAOYSA-N
3-[5-(2-Methylpropyl)-3,6-dioxopiperazin-2-yl]propanoic acid	CSRXCVLPMJBQIM-UHFFFAOYSA-N
3-Hydroxyurs-12-en-23-oic acid	NBGQZFQREPIKMG-UHFFFAOYSA-N
3-Methylxanthine	GMSNIKWWOQHZGF-UHFFFAOYSA-N
4-(3,4-Dihydroxyphenyl)-6,7-dihydroxy-2-naphthalenecarboxylic acid	ZSKDVJYWOHBGNI-UHFFFAOYSA-N
4-Amino-5-methoxy-2-methylbenzenesulfonic acid	JBAVAJIXZVRJHT-UHFFFAOYSA-N
4-Cholestenone	NYOXRYXRWJDKP-GYKMGHSDA-N
4-Ketopimelic acid	UDDSEESQRGPVIL-UHFFFAOYSA-N
4-Oxododecanedioic acid	HHXMOTDTSYYEI-UHFFFAOYSA-N
4-Pyridoxic acid	HXACOUQIXZGNBF-UHFFFAOYSA-N
5,6-Dihydrouridine	ZPTBLXKRQAACLCR-XVFCMESISA-N
5-Hydroxyindole-3-acetic acid	DUUGKQCEGZLZNO-UHFFFAOYSA-N
6-Heptadecen-16-yne-1,2,4-triol	YPRUOUDKJWVMW-VAWYXSNFSA-N
6-Methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide	YGCFIWIQZPHFLU-UHFFFAOYSA-N

Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS

Metabolite	InChiKey
8-(3-Octyl-2-oxiranyl)octanoic acid	IMYZYCNQZDBZBQ-UHFFFAOYSA-N
8-Acetamido-2-methyl-7-oxononanoic acid	UALLEVOGEQZKSX-UHFFFAOYSA-N
9,10-Dihydroxy-12Z-octadecenoic acid	XEBKSQSGNGRGDW-CJWPDFJNSA-N
9-Oxo-10(E),12(E)-octadecadienoic acid	LUZSWWYKKLTDHU-SIGMCMEVSA-N
9Z,11E,13E-Octadecatrienoic acid	CUXYLFPMQMFGPL-WPOADVJFSA-N
Adipic acid	WNLRTBRBMVRJNCN-UHFFFAOYSA-N
Allyl 4-amino-1-piperidinecarboxylate	XKLGRJGBMKOQDK-UHFFFAOYSA-N
alpha,alpha-Dilaurin	KUVAEMGNHJQSMH-UHFFFAOYSA-N
alpha-Hyodeoxycholic acid methyl ester	BWDRDVHYVJQWBO-QWXHOCAMSA-N
alpha-Tocopheryl acetate	ZAKOWWREFLAJOT-PDNQPUDYSA-N
Anacardic acid	ADFWQBGTDJIESE-UHFFFAOYSA-N
Anacardic acid diene	KAOMOVYHGLSFHQ-UTOQUPLUSA-N
Asn-Pro	GADKFYNESXNRLC-WDSKDSINSA-N
Asp-Pro	UKGGPJNBONZZCM-WDSKDSINSA-N
Asp-Val	CPMKYMGGYUFOHS-CAHLUQPWSA-N
Azaspiracid-8	VTXJIDBQMAXDIY-CQQSUDGLSA-N
Bacilysocin	DIGHTWUQPWHBPG-UHFFFAOYSA-N
Benzenesulfonic acid, 4-(acetylamino)-	ZQPVMSLLKQTRMG-UHFFFAOYSA-N
Benzylidimethyldodecylammonium cation	CYDRXTMLKJDRQH-UHFFFAOYSA-N
Benzylidimethylstearylammmonium cation	FWLORMQUOWCQPO-UHFFFAOYSA-N
beta-Cryptoxanthin	DMASLKHVQRHNES-FKKUPVFPSA-N
beta-Hyodeoxycholic acid	DGABKXLVXPYZII-MMTMODRTSA-N
beta-Sitosterol	KZJWDPNRJALLNS-VJSFXXLFSAN
Bilirubin	BPYKTIZUTYGOLE-IFADSCNNSA-N
Bis-(3,4-dimethyldibenzylidenesorbitol)	YWEWWNPYDDHZDI-JJKTNRVSA-N
Chenodeoxycholic acid	RUDATBOHQWOJDD-BSWAIDMHSA-N
Cholan-24-oic acid, 12-hydroxy-3-oxo-	WMUMZOAFCDOTRW-UHFFFAOYSA-N
Cholan-24-oic acid, 12-hydroxy-3-oxo-, methyl ester	LOJPGRHPJBGMMF-JJNSWQHQA-N
Cholestan-3-ol, (3 alpha,5 beta)-	QYIXCDOBOSTCEI-VZNRSCWSA-N
Cholesterol	HVYWMOMLDIMFJA-DPAQBDIFSA-N
Cholesterol 3-sulfate	BHYOQNUELFTYRT-DPAQBDIFSA-N
Cholic acid	BHQCFYRZLCQQ-OELDTZBJSAN
cis,cis-9,12-Octadecadien-1-ol	JXNPEDYJTDQORS-HZJYTRNSA-N
cis-Vaccenic acid	UWHZIFQPPBDJPM-FPLPWBNLSA-N
Citrulline	RHGKLRLOHDJJDR-UHFFFAOYSA-N
Cocamidopropyl betaine	MRUAUOIMASANKQ-UHFFFAOYSA-N
D-alpha-Tocopherol succinate	IELOKBJPULMYRW-NJQVLOCASA-N
Dehydropiperonaline	KAYVDASZRFLFRZ-PQECNABGSA-N
Deoxycholic acid	KXGVEGMKQFWNSR-LLQZFEROSA-N
D-erythro-N-Stearoylsphingosine	WWUZIQQURGPMPG-KRWOKUGFSA-N
D-erythro-Sphinganine	OTKJDMGTUTTYMP-ZWKOTPCHSA-N
D-Glucosyl-beta-1,1-N-palmitoyl-D-erythro-sphingosine	VJLLLMIZEJZTE-NNTBDIJYSA-N
Didymin	RMCRQBAILCLJGU-HIBKWJPLSA-N
Dihydrodaidzein	JHYXBPPMXZIHKG-UHFFFAOYSA-N
Dimethyl azelate	DRUKNYVQGHEPPO-UHFFFAOYSA-N

Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS

Metabolite	InChiKey
Di-tert-butyl L-glutamate	NTUGPDFKMVHCCJ-VIFPVBQESA-N
DL-beta-Hydroxypalmitic acid	CBWALJHXHCJYTE-UHFFFAOYSA-N
DL-Indole-3-lactic acid	XGILAAAMKEQUXLS-UHFFFAOYSA-N
DL-Serine, succinate (ester)	ZAHSBRLHJR VFAU-UHFFFAOYSA-N
Docosanoyl ethanolamide	XHFWECSNJWBJU-UHFFFAOYSA-N
Dodecanedioic acid	TVIDDXQYHWJXFK-UHFFFAOYSA-N
Ergocalciferol	MECHNRXZTMCUDQ-ANGGWTPUSA-N
Erucamide	UAUDZVJPLUQNMU-KTKRTIGZSA-N
Formamide, N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-N-[4-hydroxy-1-methyl-2-(propyldithio)-1-buten-1-yl]-	UDCIYVVYDCXLSX-SDNWHVVSQSA-N
Gabapentin	UGJMXCAKCUNAIE-UHFFFAOYSA-N
Gamithromycin	VWAMTBXLZPEDQO-UZSBJOJWSA-N
gamma-Glu-Phe	XHHOHZPNYFQJKL-QWRGUYRKSA-N
Genkwanin	JPMYFOBNRRGFNO-UHFFFAOYSA-N
Ginkgolic acid I	YXHVCZZLWZYHSA-FPLPWBNSA-N
Gln-Val	MRVYVEQPNDSWLH-XPUUQOCSA-N
Glu-Glu	KOSRFJWDECSPRO-UHFFFAOYSA-N
Glu-Leu	YBAFDPFAUTYYRW-SFYZADRCSA-N
Glycerol monooleate	RZRNAYUHWVFMIP-KTKRTIGZSA-N
Glycerol trilaurate	VMPHSYLJUKZBJJ-UHFFFAOYSA-N
Glycerol trioleate	PHYFQTYBJUILEZ-IUPFWZBJSAN
Glycodeoxycholic acid	WVULKSPCQVQLCU-UHFFFAOYSA-N
Gly-Pro	KZQNQBZMBZJQJO-YFKPBYRVSA-N
Gly-Val	STKYPAFSDFAEPH-LURJTMIESA-N
Guanine	UYTPUPDQBNUYGX-UHFFFAOYSA-N
Guanosine	NYHBQMYGNKIUIF-UUOKFMHZSA-N
Guanosine 3',5'-cyclic monophosphate	ZOGRGPOEVQQDX-BDXYJKHTSA-N
Guineensine	FPMPOFBEYSSYDQ-AUVZEZIHSA-N
Heptadecaphinganine	KFQUQCFJDMSIJF-DLBZAZTESA-N
His-Pro	LNCFUHAPNTYMJB-IUCAKERBSA-N
Histidine	HNDVDQJICIGZPNO-UHFFFAOYSA-N
Ile-Glu	KTGFOCFYOZQVRJ-ACLDMZEESA-N
Ile-Phe	WMDZARFSMZQO-UHTWSYAYSA-N
Ile-Thr	DRCKHKZYDLJYFQ-YWIQKCBGSA-N
Ile-Val	BCXBIONYYJCSD- CIUDSAML SA-N
Inositol hexanicotinate	MFZCIDXOLLEMOO-GYSGTQPESA-N
Lactosyl-Ceramide(d18:1/22:0)	QYWVASPEUXEHSY-DYGYHFHFSAN
Laurylsulfuric acid	MOTZDAYCYVMXPC-UHFFFAOYSA-N
Leu-Leu	LCPYQJIKPJDLLB-ZJUJUORDSA-N
Leu-Pro	VTJUNIYRYIAIHF-IUCAKERBSA-N
Linoleic acid-biotin	TXYWCIYPXRNWJU-MJDXYKDYDGSAN
Linoleoyl ethanolamide	KQXDGUVSAAQARU-HZJYTTRNSAN
Lithocholic acid	SMEROWZSTRWXGI-HVATVPOCSAN
Lumichrome	ZJTJUVIJVLGSP-UHFFFAOYSA-N
Lysine	KDXKERNBIXSRK-UHFFFAOYSA-N
Lys-Leu	ATIPDCIQTUXABX-UWVGGRQHSA-N

Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS

Metabolite	InChiKey
Lys-Pro	AIXUQKMMBQJZCU-IUCAKERBSA-N
Methionine sulfoxide	QEFRNWWLZKMPFJ-YGVKFDHGSA-N
Methyl linolenate	DVWSXZIHUSUZZKJ-YSTUJMKBSA-N
Met-Pro	DZMGFGQBRYWJOR-YUMQZZPRSA-N
Met-Val	BJFJQOMZCASHBY-SFYZADRCSA-N
Monobehenin	OKMWKBLSFKFYGGZ-UHFFFAOYSA-N
Myristyl sulfate	URLJMZWTXZTZRZ-UHFFFAOYSA-N
N-(14-Methylpentadecanoyl)phenylalanine	WICAPTTWPBEVPW-UHFFFAOYSA-N
N-(2-Amino-4-methylpentanoyl)phenylalanine	KFKWRHQBZQICHA-UHFFFAOYSA-N
N,N-Dimethylsphingosine	YRXOQXUDKDCXME-YIVRLKSSA-N
N2-Isobutyryl-2'-deoxyguanosine	SIDXEQFMTMICKG-UHFFFAOYSA-N
N6-Palmitoyl-L-lysine	IWKZTTDNVPAHNP-FQEVSTJZSA-N
N-Acetyldihydrosphingosine	CRJGESKKUOMBCT-VQTJNVASSA-N
N-Acetyl-L-alanine	KTHDTJVBEPMMGL-UHFFFAOYSA-N
N-Acetyl-L-aspartic acid	OTCCIMWXFLJLIA-BYPYZUCNSA-N
N-Acetyl-L-glutamic acid	RFMMMVDNIPUKGG-YFKPBYRVSA-N
N-Acetyl-L-tyrosine	CAHKINHBCWCHCF-JTQLQIEISA-N
N-Acetylputrescine	KLZGKIDSEJWEDW-UHFFFAOYSA-N
N-Acetyltyramine	ATDWJOOPFDQZK-UHFFFAOYSA-N
Nadolol	VWPOSFSPZNDTMJ-UCWKZMIHSA-N
N-alpha-Acetyl-L-lysine	VEYYWZRYIYDQM-ZETCQYMHSA-N
N-Benzyl-N,N-dimethyl-1-tetradecanaminium cation	WNBGVVXHFTYOBY-UHFFFAOYSA-N
N-Desmethylloperamide	ZMOPTLXEYOVARP-UHFFFAOYSA-N
N-Docosanoyl-4-sphingenyl-1-O-phosphorylcholine	FJJANLYCZUNFSE-TWQUQIQBSA-N
N-Lauroyl-D-erythro-sphinganine	UHWYQXNZIBLESO-URLMMPGGSA-N
N-L-gamma-Glutamyl-L-leucine	MYFMARDICOWMQP-UHFFFAOYSA-N
N-Methyl-L-phenylalanine	SCIFESDRCALIIM-VIFPVBQESA-N
N-Oleoyl-4-sphingenine	OBFSMLQLPNKVRW-RHPAUOISSA-N
N-Oleoyl-D-erythro-sphinganine	MJQIARGPQMNBGT-WWUCIAQXSA-N
N-Palmitoyl-D-sphingosine	YDNKGFDKCRUKPY-TURZORIXSA-N
N-Palmitoyltryptamine	YZWBXGMMZOEBAU-UHFFFAOYSA-N
N-Stearoylsphinganine	KZTJQXAANJHSCE-OIDHKYIRSA-N
N-Tetracosenoyl-4-sphingenine	VJSBNBOSZJDKB-KPEYJIHVSA-N
Oleanolic acid	MIJYXULNPSFWEK-GTOFXWBISA-N
Oleic acid	ZQPPMHVWECSIRJ-KTKRTIGZSA-N
Oleoyl ethanolamide	BOWVQLFMWHZBEF-KTKRTIGZSA-N
Oleoyl ethylamide	JZJYYCFYGGPUMF-QXMHVHEDSA-N
Oleyl sulfate	ZUBJEHHGZYTRPH-KTKRTIGZSA-N
Palmitoyl ethanolamide	HXYVTAGFYLMHSO-UHFFFAOYSA-N
Palmitoyl sphingomyelin	RWKUXQNLWDTSLQ-GWQJGLRPSA-N
Palmitoyleicosapentaenoyl phosphatidylcholine	KLTHQSWIRFFBRI-KOQZQRJKSA-N
Pantothenic acid	GHOKWGTUZJEAQD-UHFFFAOYSA-N
PEG15	ILLKMACMBHTSHP-UHFFFAOYSA-N
PEG16	OWTQQPNDSWCHOV-UHFFFAOYSA-N
Pentacosanoic acid	MWMPEAHGUXCSMY-UHFFFAOYSA-N

Table 5. Non-Certified Metabolite Identifications of Vegetarian Stool by LC-MS/MS	
Metabolite	InChiKey
Pheophorbide a	NSFSLUUZQIAOOX-QEWKCGBTSA-N
Phe-Val	IEHDJWSAXBGJIP-RYUDHWBXSAN
Phytosphingosine 1-phosphate	AYGOSKULTISFCW-KSZLIROESA-N
Piperine	MXXWOMGUGJBKIW-YPCIICBESA-N
Pregnanetriol	SCPADBBISMMJAW-UHHUKTEYSA-N
Pregnenolone sulfate	DIJBBUIOWGGQOP-QGVNFLTSA-N
Pro-Val	AWJGUZSYVIVZGP-YUMQZZPRSA-N
Riboflavin	AUNGANRZJHBGPY-SCRDCRAPSA-N
Ricinoleic acid	WBHHMMIMDMUBKC-QJWNTBNXSA-N
Saccharin	CVHZOJJKTDOEJC-UHFFFAOYSA-N
Secaliferol	FCKJYANJHNLEEP-XRWYNYHCSA-N
Ser-Pro	WBAXJMCUFIXCNI-WDSKDSINSA-N
Sertraline	VGKDLMBJGBXTGI-YVEFUNNKSA-N
Stearamide	LYRFLYHAGKPMFH-UHFFFAOYSA-N
Stearoyl ethanolamide	OTGQIQQTPXJQRG-UHFFFAOYSA-N
Stercobilin	TYOWQLRVAUSMI-WKULSOCRSA-N
Stigmastadienone	MKGZDUKUQPPHFM-DPZQRLQDSA-N
Suberic acid	TYFQFVWCELRYAO-UHFFFAOYSA-N
Sucralose	BAQAVOSOZGMPRM-QBMZZYIRSA-N
Termitomycamide E	JTSNNDBVDQFVEG-HZJYTTRNSA-N
Terrestribisamide	CHEMZHJQHCVLFI-MKICQXMISA-N
Tetradecanedioic acid	HQHICYKULIHKCEB-UHFFFAOYSA-N
Tetradecanedioic acid, 5,6-dihydroxy-	JCOCIXAHAFALHI-UHFFFAOYSA-N
Tetrahydroharman-3-carboxylic acid	ZUPHXNBLQCSEIA-UHFFFAOYSA-N
Thiamine cation	JZRWCGZRTZMZEH-UHFFFAOYSA-N
Threonine	AYFVYJQAPQTCCC-UHFFFAOYSA-N
Thr-Leu	BQBCIBCLXBKYHW-BIIVOSGPSA-N
Thr-Val	CKHWEVXPLJBEOZ-QYNIQEEDSA-N
Tomatidine	XYNPYHXGMWJBLV-KLPIGKMYSAN
trans-Petroselinic Acid	CNVZJPUDSLNTQU-OUKQBFOZSA-N
trans-Vaccenic acid	UWHZIFQPPBDJPM-BQYQJAHWSAN
Tridemorph	YTOPFCCWCSOHFV-UHFFFAOYSA-N
Trihydroxycholestanoic acid	CNWPIIOQKZNXBB-VCVMUKOKSAN
Trilinolein	HBOQXIRUPVQLKX-BBWANDEASAN
Tyr-Pro	VNYDHJARLHNEGA-RYUDHWBXSAN
Tyr-Val	OYOQKMOWUDVWCR-RYUDHWBXSAN
Ubiquinone 9	UUGXJSBPSRROMU-WJNLUYJISAN
Uracil	ISAKRJDGNUQOIC-UHFFFAOYSA-N
Uric acid	LEHOTFFKMJEONL-UHFFFAOYSA-N
Urobilin	KDCCOOGTVSRCHX-UYMYUHGCSAN
Urocanic acid	LOIYMIARKYCTBW-OWOJBTEDSAN
Val-Glu	UPJONISHZRADBH-POYBYMJQSAN
Val-Pro	GIAZPLMMQOERP-N-YUMQZZPRSAN
Val-Val	KRNYOVHEKOBTEF-UHFFFAOYSA-N
Valylphenylalanine	GJNDXQBALKCYSZ-UHFFFAOYSA-N

Metabolite	InChiKey
Victoria Pure Blue BO	ALMMLSQBERCMRB-UHFFFAOYSA-O
Xanthine	LRFVTYWOQMYALW-UHFFFAOYSA-N

Metabolite	InChiKey
(3-carboxypropyl)trimethylammonium <sup>(a)</sup>	JHPNVNIEXXLNTR-UHFFFAOYSA-O
1,3-Dihydroxyacetone <sup>(b)</sup>	RXKJFZQQPQGTFL-UHFFFAOYSA-N
1,7-Dimethyluric acid <sup>(a)</sup>	NOFNCLGCUJJP KU-UHFFFAOYSA-N
2-Aminobutyrate <sup>(a)</sup>	QWCKQJZIFLGMSD-UHFFFAOYSA-N
2'-Deoxyuridine <sup>(a)</sup>	MXHRCPNRJAMMIM-UHFFFAOYSA-N
2-Methylbutyrate <sup>(a)</sup>	WLAMNBDJUVNPJU-BYPYZUCNSA-N
3-Hydroxyphenylacetate <sup>(a)</sup>	FVMDYYGIDFPZAX-UHFFFAOYSA-N
3-Methyl-2-oxovalerate <sup>(a)</sup>	JVQYSWDUAOAHFM-UHFFFAOYSA-M
3-Phenylpropionate <sup>(a)(b)</sup>	XMIIGOLPHOKFCH-UHFFFAOYSA-N
4-Hydroxyphenylacetate <sup>(a)</sup>	XQXPVVBIMDBYFF-UHFFFAOYSA-M
4-Hydroxyphenylpropionate <sup>(a)</sup>	ZHMMPVANGNPCBW-UHFFFAOYSA-M
5-Aminopentanoate <sup>(a)</sup>	JJMDCOVWQOJGCB-UHFFFAOYSA-M
Acetate <sup>(a)(b)</sup>	QTBSBXVTEAMEQO-UHFFFAOYSA-M
Alanine <sup>(a)(b)</sup>	QNA YBMKLOCPYGJ-UHFFFAOYSA-N
Alpha-ketoisovaleric acid <sup>(a)</sup>	QHKABHOOEWYVLI-UHFFFAOYSA-N
Aminocaproic acid <sup>(a)</sup>	SLXKOJJOQWFEFD-UHFFFAOYSA-N
Arabinose <sup>(a)(b)</sup>	SRBFZHDQGSBBOR-HWQSCIPKSA-N
Aspartate <sup>(a)(b)</sup>	CKLJMWTZIZZHCS-UHFFFAOYSA-L
Beta-Alanine <sup>(a)</sup>	UCMIRNVEIXFBKS-UHFFFAOYSA-N
Butyrate <sup>(a)(b)</sup>	FERIUCNNQQJTOY-UHFFFAOYSA-M
Cadaverine <sup>(a)(b)</sup>	VHRGRCVQAFMJIZ-UHFFFAOYSA-N
Caprylate <sup>(a)(b)</sup>	WWZKQHOCKIZLMA-UHFFFAOYSA-N
Choline <sup>(a)(b)</sup>	OEYIOHPDSNJKLS-UHFFFAOYSA-N
Citrulline <sup>(a)(b)</sup>	RHGKLRLOHDJJDR-UHFFFAOYSA-N
Deoxycholic acid <sup>(a)</sup>	KXGVEGMKQFWNSR-LLQZFEROSA-N
Desaminotyrosine <sup>(a)(b)</sup>	NMHMNP HRMNGLLB-UHFFFAOYSA-N
Dimethylamine <sup>(b)</sup>	ROSDSFDQCJNGOL-UHFFFAOYSA-N
Ethanolamine <sup>(a)</sup>	HZAXFHJVJLSVMW-UHFFFAOYSA-N
Formate <sup>(a)</sup>	BDAGIHXWWSANSR-UHFFFAOYSA-M
Fructose <sup>(a)</sup>	BJHIKXHVCFXQLS-UHFFFAOYSA-N
Fucose <sup>(a)</sup>	PNNNRS AQSRJVSBUHFFFAOYSA-N
Fumarate <sup>(a)</sup>	VZCYOOQTPOCHFL-OWOJBTEDSA-L
Galactose <sup>(a)(b)</sup>	GZCGUPFRVQAUEE-UHFFFAOYSA-N
Galacturonic acid <sup>(a)</sup>	IAJILQKETJEXLJ-RSJOWCBRSA-N
Gluconate <sup>(a)</sup>	RGHNJXZEOKUKBD-UHFFFAOYSA-M
Glucose <sup>(a)(b)</sup>	GZCGUPFRVQAUEE-UHFFFAOYSA-N
Glutamate <sup>(a)(b)</sup>	WHUUTDBJXRKMK-UHFFFAOYSA-N
Glutamine <sup>(a)(b)</sup>	ZDXPYRJPNDTMRX-UHFFFAOYSA-N

Table 6. Non-Certified Metabolite Identifications of Omnivore Stool by NMR	
Metabolite	InChiKey
Glutarate <sup>(a)</sup>	JFCQEDHGNNZCLN-UHFFFAOYSA-N
Glycerol <sup>(a)(b)</sup>	PEDCQBHIVMGVHV-UHFFFAOYSA-N
Glycine <sup>(a)(b)</sup>	DHMQDGOQFOQNFH-UHFFFAOYSA-N
Glycolate <sup>(a)</sup>	AEMRFAOFKBGASW-UHFFFAOYSA-M
Hexanoic acid <sup>(a)</sup>	FUZZWVXGSPDMH-UHFFFAOYSA-N
Hypoxanthine <sup>(a)(b)</sup>	FDGQSTZJBFJUBT-UHFFFAOYSA-N
Isobutyrate <sup>(a)</sup>	KQNPFTWMSNSAP-UHFFFAOYSA-M
Isoleucine <sup>(a)(b)</sup>	AGPKZVBTJJNPAG-WHFBIKZSA-N
Isovalerate <sup>(a)(b)</sup>	GWYFCOCPABKNJV-UHFFFAOYSA-N
Lactate <sup>(a)</sup>	JVTAAEKCFNVCJ-UHFFFAOYSA-M
Leucine <sup>(a)(b)</sup>	ROHFNLRQFUQHCH-UHFFFAOYSA-N
Lysine <sup>(a)(b)</sup>	KDXKERNBIXSRK-UHFFFAOYSA-N
Malate <sup>(a)(b)</sup>	BJEPYKJPYRNKOW-UHFFFAOYSA-L
Maltose <sup>(a)</sup>	DKXNBKWCZZMJT-SILGPGCPSA-N
Mannose <sup>(a)</sup>	GZCGUPFRVQAUEE-UHFFFAOYSA-N
Methanol <sup>(a)(b)</sup>	OKKJLVBELUTLKV-UHFFFAOYSA-N
Methionine <sup>(a)(b)</sup>	FFEARJCKVFRZRR-UHFFFAOYSA-N
Methionine sulfoxide <sup>(a)</sup>	QEFRNWWLZKMPFJ-YGVKFDHGSA-N
Methylamine <sup>(a)</sup>	BAVYZALUXZFZLV-UHFFFAOYSA-N
Methylsuccinate <sup>(a)(b)</sup>	MUXOBHXGJLMRAB-UHFFFAOYSA-N
myo-Inositol <sup>(a)</sup>	CDAISMWEOUEBRE-UHFFFAOYSA-N
N-Acetylalanine <sup>(a)</sup>	KTHDTJVBEPMMGL-VKHMYHEASA-N
N-Acetylglucosamine <sup>(a)</sup>	MBLBDJOUHNCFQT-UHFFFAOYSA-N
N-acetylglutamine <sup>(a)</sup>	KSMRODHGGIIXDV-YFKPBYRVSA-N
Nicotinate <sup>(a)(b)</sup>	PVNIIMVLHYAWGP-UHFFFAOYSA-M
Ornithine <sup>(a)</sup>	AHLPHDHHMVZTML-UHFFFAOYSA-N
Pantothenate <sup>(a)</sup>	GHOKWGTUZZJEAQD-UHFFFAOYSA-N
p-Cresol <sup>(b)</sup>	IWDCLRJOBJJRNH-UHFFFAOYSA-N
Phenylacetate <sup>(a)(b)</sup>	IPBVNPXQWQGGJP-UHFFFAOYSA-N
Phenylalanine <sup>(a)(b)</sup>	COLNVLDHVKWLRT-UHFFFAOYSA-N
Pipecolic acid <sup>(a)</sup>	HXEACLLIILLPRG-UHFFFAOYSA-N
Proline <sup>(a)(b)</sup>	ONIBWKKTOPOVIA-UHFFFAOYSA-N
Propionate <sup>(a)(b)</sup>	XBDQKXXYIPTUBI-UHFFFAOYSA-M
Pyroglutamate <sup>(a)</sup>	ODHCTXKNWHHXJC-UHFFFAOYSA-M
Ribose <sup>(a)(b)</sup>	PYMYPHUHKUWMLA-UHFFFAOYSA-N
Serine <sup>(a)(b)</sup>	MTCFGRXMJLQNBG-UHFFFAOYSA-N
Stachydrine <sup>(a)</sup>	CMUNUTVVOOHQPW-UHFFFAOYSA-N
Succinate <sup>(a)(b)</sup>	KDYFGRWQOYBRFD-UHFFFAOYSA-L
Threonine <sup>(a)(b)</sup>	AYFVYJQAPQTCCC-UHFFFAOYSA-N
Thymidine <sup>(a)</sup>	IQFYYKKMVGJFEH-XLPZGREQSA-N
Thymine <sup>(a)</sup>	RWQNBRDOKXIBIV-UHFFFAOYSA-N
Tryptophan <sup>(a)(b)</sup>	QIVBCDIJAJPQS-UHFFFAOYSA-N
Tyrosine <sup>(a)(b)</sup>	OUYCCCASQSFEME-UHFFFAOYSA-N
Uracil <sup>(a)(b)</sup>	ISAKRJDGNUQOIC-UHFFFAOYSA-N
Uridine <sup>(a)</sup>	DRTQHJPMGBUCF-XVFCMESISA-N

Table 6. Non-Certified Metabolite Identifications of Omnivore Stool by NMR	
Metabolite	InChiKey
Urocanate <sup>(a)</sup>	LOIYMIARKYCTBW-OWOJBTEDSA-N
Valerate <sup>(a)(b)</sup>	NQPDZGIKBAWPEJ-UHFFFAOYSA-M
Valine <sup>(a)(b)</sup>	KZSNJWFQEVHDMF-UHFFFAOYSA-N
Xanthine <sup>(b)</sup>	LRFVTYWOQMYALW-UHFFFAOYSA-N
Xylose <sup>(b)</sup>	SRBFZHDQGSBBOR-IOVATXLUSA-N

<sup>(a)</sup>Method 1 (Omnivore solvent extraction – polar metabolites)

<sup>(b)</sup>Method 2 (Omnivore aqueous extraction – fecal water)

Table 7. Non-Certified Metabolite Identifications of Vegetarian Stool by NMR	
Metabolite	InChiKey
(3-carboxypropyl)trimethylammonium <sup>(a)</sup>	JHPNVNIEXXLNTR-UHFFFAOYSA-O
1,3-Dimethyluric acid <sup>(a)</sup>	OTSBKHHWSQYEHK-UHFFFAOYSA-N
1-Methyluric acid <sup>(a)</sup>	QFDRTOONISXGJA-UHFFFAOYSA-N
2-Aminobutyrate <sup>(a)</sup>	QWCKQJZIFLGMSD-UHFFFAOYSA-N
2'-Deoxyuridine <sup>(a)</sup>	MXHRCPNRJAMMIM-UHFFFAOYSA-N
2-Methylbutyrate <sup>(a)</sup>	WLAMNBDJUVNPJU-BYPYZUCNSA-N
3-Hydroxyphenylacetate <sup>(a)</sup>	FVMDYYGIDFPZAX-UHFFFAOYSA-N
3-Phenylpropionate <sup>(a)(b)</sup>	XMIIGOLPHOKFCH-UHFFFAOYSA-N
4-Hydroxyphenylacetate <sup>(a)</sup>	XQXPVVBMDBYFF-UHFFFAOYSA-M
5-Aminopentanoate <sup>(a)</sup>	JJMDCOVWQOJGCB-UHFFFAOYSA-M
6-Hydroxynicotinate <sup>(a)</sup>	BLHCMGRVFXRYRN-UHFFFAOYSA-M
Acetate <sup>(a)(b)</sup>	QTBSBXVTEAMEQO-UHFFFAOYSA-M
Alanine <sup>(a)(b)</sup>	QNAYBMKLOCPYGJ-UHFFFAOYSA-N
Aminocaproic acid <sup>(a)</sup>	SLXKOJJOQWFEFD-UHFFFAOYSA-N
Arabinose <sup>(a)(b)</sup>	SRBFZHDQGSBBOR-HWQSCIPKSA-N
Asparagine <sup>(a)</sup>	DCXYFEDJOCNFAF-REOHCLBHSA-N
Aspartate <sup>(a)(b)</sup>	CKLJMWTZIZZHCS-UHFFFAOYSA-L
Beta-Alanine <sup>(a)</sup>	UCMIRNVEIXFBKS-UHFFFAOYSA-N
Butyrate <sup>(a)(b)</sup>	FERIUCNNQJTOY-UHFFFAOYSA-M
Cadaverine <sup>(a)(b)</sup>	VHRGRCVQAFMJIZ-UHFFFAOYSA-N
Caprylate <sup>(a)(b)</sup>	WWZKQHOCKIZLMA-UHFFFAOYSA-N
Choline <sup>(a)(b)</sup>	OEYIOHPDSNJKLS-UHFFFAOYSA-N
Citrulline <sup>(a)(b)</sup>	RHGKLRLOHDJJDR-UHFFFAOYSA-N
Deoxycholic acid <sup>(a)</sup>	KXGVEGMKQFWNSR-LLQZFEROSA-N
Ethanolamine <sup>(a)</sup>	HZAXFHJVJLSVMW-UHFFFAOYSA-N
Formate <sup>(a)(b)</sup>	BDAGIHXWWSANSR-UHFFFAOYSA-M
Fructose <sup>(a)</sup>	BJHIKXHVCFQLS-UHFFFAOYSA-N
Fucose <sup>(a)</sup>	PNNNRSAQSRJVSU-UHFFFAOYSA-N
Fumarate <sup>(a)(b)</sup>	VZCYOOQTPOCHFL-OWOJBTEDSA-L
Gabapentin <sup>(a)(b)</sup>	UGJMXCAKCUNAIE-UHFFFAOYSA-N
Galactose <sup>(a)(b)</sup>	GZCGUPFRVQAUEE-UHFFFAOYSA-N
Galacturonic acid <sup>(a)</sup>	IAJILQKETJEXLJ-RSJOWCBRSA-N
Gluconate <sup>(a)</sup>	RGHNJXZEOKUKBD-UHFFFAOYSA-M
Glucose <sup>(a)(b)</sup>	GZCGUPFRVQAUEE-UHFFFAOYSA-N
Glutamate <sup>(a)(b)</sup>	WHUUTDBJXJRKMK-UHFFFAOYSA-N



Table 7. Non-Certified Metabolite Identifications of Vegetarian Stool by NMR	
Metabolite	InChiKey
Glutamine <sup>(a)(b)</sup>	ZDXPYRJPNDTMRX-UHFFFAOYSA-N
Glycerol <sup>(a)(b)</sup>	PEDCQBHIVMGVHV-UHFFFAOYSA-N
Glycine <sup>(a)(b)</sup>	DHMQDGOQFOQNFH-UHFFFAOYSA-N
Glycolate <sup>(a)</sup>	AEMRFAOFKBGASW-UHFFFAOYSA-M
Hexanoic acid <sup>(a)</sup>	FUZZWVXGSPDMH-UHFFFAOYSA-N
Hypoxanthine <sup>(a)(b)</sup>	FDGQSTZJBFJUBT-UHFFFAOYSA-N
Isobutyrate <sup>(a)</sup>	KQNPFTWMSNSAP-UHFFFAOYSA-M
Isoleucine <sup>(a)(b)</sup>	AGPKZVBTJJNPAG-WHFBIAKZSA-N
Isovalerate <sup>(a)(b)</sup>	GWYFCOCPABKNJV-UHFFFAOYSA-N
Lactate <sup>(a)(b)</sup>	JVTAAEKCFZFNVCJ-UHFFFAOYSA-M
Leucine <sup>(a)(b)</sup>	ROHFNLRFUQHCH-UHFFFAOYSA-N
Lysine <sup>(a)(b)</sup>	KDXKERNBIXSRK-UHFFFAOYSA-N
Malate <sup>(a)(b)</sup>	BJEPYKJPYRNKOW-UHFFFAOYSA-L
Maltose <sup>(a)</sup>	DKXNBNKWCZMJT-SILGPGCPSA-N
Mannobiose <sup>(a)</sup>	GUBGYTABKSRVRQ-PZPXDAEZSA-N
Methanol <sup>(a)(b)</sup>	OKKJLVBELUTLKV-UHFFFAOYSA-N
Methionine <sup>(a)(b)</sup>	FFEARJCKVFRZRR-UHFFFAOYSA-N
Methionine sulfoxide <sup>(a)</sup>	QEFRNWWLZKMPFJ-YGVKFDHGSA-N
Methylamine <sup>(a)</sup>	BAVYZALUXZFZLV-UHFFFAOYSA-N
Methylsuccinate <sup>(a)(b)</sup>	MUXOBHXGJLMRAB-UHFFFAOYSA-N
myo-Inositol <sup>(a)</sup>	CDAISMWEUEBRE-UHFFFAOYSA-N
N-Acetylalanine <sup>(a)</sup>	KTHDTJVBEPMMGL-VKHMHEASA-N
N-Acetylglucosamine <sup>(a)</sup>	MBLBDJOUHNCFTQ-UHFFFAOYSA-N
N-acetylglutamine <sup>(a)</sup>	KSMRODHGGIIXDV-YFKPBYRVSA-N
Nicotinate <sup>(a)(b)</sup>	PVNIIMVLHYAWGP-UHFFFAOYSA-M
Ornithine <sup>(a)</sup>	AHLPHDHHMVZTML-UHFFFAOYSA-N
Pantothenate <sup>(a)</sup>	GHOKWGTUZJEAQD-UHFFFAOYSA-N
p-Cresol <sup>(b)</sup>	IWDCLRJOBJJRNH-UHFFFAOYSA-N
Phenylacetate <sup>(a)(b)</sup>	IPBVNPXQWQGGJP-UHFFFAOYSA-N
Phenylalanine <sup>(a)(b)</sup>	COLNVLDHVKWLRT-UHFFFAOYSA-N
Pipecolic acid <sup>(a)</sup>	HXEACLLIILLPRG-UHFFFAOYSA-N
Proline <sup>(a)(b)</sup>	ONIBWKKTOPOVIA-UHFFFAOYSA-N
Propionate <sup>(a)(b)</sup>	XBDQKXXYIPTUBI-UHFFFAOYSA-M
Pyroglutamate <sup>(a)</sup>	ODHCTXKNWHHXJC-UHFFFAOYSA-M
Ribose <sup>(a)(b)</sup>	PYMYPHUHKUWMLA-UHFFFAOYSA-N
Sarcosine <sup>b</sup>	FSYKLYZXJSPZ-UHFFFAOYSA-N
Serine <sup>(a)(b)</sup>	MTCFGRXMJLQNBG-UHFFFAOYSA-N
Succinate <sup>(a)(b)</sup>	KDYFGRWQOYBRFD-UHFFFAOYSA-L
Threonine <sup>(a)(b)</sup>	AYFVYJQAPQTCCC-UHFFFAOYSA-N
Thymidine <sup>(a)</sup>	IQFYYKKMVGJFEH-XLPZGREQSA-N
Thymine <sup>(a)</sup>	RWQNBRDOKXIBIV-UHFFFAOYSA-N
Tryptophan <sup>(a)(b)</sup>	QIVBCDIJAJPQS-UHFFFAOYSA-N
Tyrosine <sup>(a)(b)</sup>	OUYCCASQSFEME-UHFFFAOYSA-N
Uracil <sup>(a)(b)</sup>	ISAKRJDGNUQOIC-UHFFFAOYSA-N
Uridine <sup>(a)(b)</sup>	DRTQHJPMVMBUCF-XVFCMESISA-N

Table 7. Non-Certified Metabolite Identifications of Vegetarian Stool by NMR	
Metabolite	InChiKey
Urocanate <sup>(a)(b)</sup>	LOIYMIARKYCTBW-OWOJBTEDSA-N
Valerate <sup>(a)(b)</sup>	NQPDZGIKBAWPEJ-UHFFFAOYSA-M
Valine <sup>(a)(b)</sup>	KZSNJWFQEVHDMF-UHFFFAOYSA-N
Xanthine <sup>(b)</sup>	LRFVTYWOQMYALW-UHFFFAOYSA-N
Xylose <sup>(b)</sup>	SRBFZHDQGSBBOR-IOVATXLUSA-N

<sup>(a)</sup>Method 1 (Vegetarian solvent extraction – polar metabolites)

<sup>(b)</sup>Method 2 (Vegetarian aqueous extraction – fecal water)

**Safety:** RM 8408 IS INTENDED FOR RESEARCH USE ONLY. This is a human source material (human feces). RM 8408 is a Biosafety Level 2 material and should be handled according to applicable federal, state, and/or local regulations and according to policies and procedures of recipient's organization. The supplier has reported that each donor of stool used in the preparation of this product was tested by FDA-licensed tests and found to be negative for human immunodeficiency virus (HIV), HIV-1 antigen, hepatitis B surface antigen, and hepatitis C.

**Storage:** The original unopened vials of RM 8048 should be stored at –80 °C. Each vial is meant to be a single use. Freeze-thaw cycles of the materials should be avoided.

**Usage and Privacy Agreement:** NIST does not possess any identifiable private information or any code to identify any identifiable private information related to the Material and will not provide the Purchaser with any identifiable private information of any living individual or any code to identify any identifiable private information related to the Material. Purchaser agrees not to attempt to decipher any identifiable private information from the Material or to identify the individual who is the subject of the Material. Purchaser agrees not to upload or search the genetic data into any public, private, commercial, or genealogy databases. In the event that Purchaser determines the identity of any individual related to the Material, Purchaser shall not make use of such knowledge, shall safeguard or destroy such information, shall not disclose such information to any other party, and shall notify NIST of such discovery in accordance with the applicable laws and regulations in effect at the time of the discovery.

**Use:** RM 8048 is provided as frozen stool that should be allowed to thaw at room temperature for no greater than 60 minutes prior to use. After the material is thawed, the entire vial should be used immediately. The contents of the vial should be gently mixed prior to analysis. Precautions should be taken to avoid exposure to strong UV light, direct sunlight and heat.

## REFERENCES

- [1] Beauchamp, C.R.; Camara, J.E.; Carney, J.; Choquette, S.J.; Cole, K.D.; DeRose, P.C.; Diewer, D.L.; Epstein, M.S.; Kline, M.C.; Lippa, K.A.; Lucon, E.; Molloy, J.; Nelson, M.A.; Phinney, K.W.; Polakoski, M.; Possolo, A.; Sander, L.C.; Schiel, J.E.; Sharpless, K.E.; Toman, B.; Winchester, M.R.; Windover, D.; *Metrological Tools for the Reference Materials and Reference Instruments of the NIST Material Measurement Laboratory*; NIST Special Publication 260-136, 2021 edition; National Institute of Standards and Technology, Gaithersburg, MD (2021); available at <https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.260-136-2021.pdf> (accessed Mar 2025).
- [2] Sumner, L.W.; Amberg, A.; Barrett, D.; Beale, M.H.; Beger, R.; Daykin, C.A.; Fan, T.W.-M.; Fiehn, O.; Goodacre, R.; Griffin, J.L.; Hankemeier, T.; Hardy, N.; Harnly, J.; Higashi, R.; Kopka, J.; Lane, A.N.; Lindon, J.C.; Marriott, P.; Nicholls, A.W.; Reily, M.D.; Thaden, J.J.; Viant, M.R.; Proposed minimum reporting standards for chemical analysis; *Metabolomics* 3, 211–221 (2007).

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**\* \* \* \* \* End of Reference Material Information Sheet \* \* \* \* \***

# APPENDIX A

**Source and Preparation:** RM 8048 is created as a pair of distinct human stool samples, corresponding to two dietary donor pools: omnivore and vegetarian. In its final form, the RM 8048 is comprised of homogenized stool from multiple donors resuspended in water to a concentration of 100 mg/mL wet weight. This RM was developed after an appropriate human subject's research determination by NIST.

**Omnivore Stool (RM 8048 Part A):** The omnivore stool was comprised of five donors for a total of 1,241 g (178 g to 305 g collected per donor). Human fecal material collections were coordinated through BioIVT (Hicksville, NY), under informed consent. Donors were self-reported healthy with no antibiotic use within three months of donation. All donors screened for the following infectious agents via blood draw: hepatitis B/C virus, human immunodeficiency virus (types 1 and 2), West Nile virus, syphilis, and Chagas. All donors were required to complete a food diary corresponding to the week around the donations. Stool donations were collected and stored at  $-80^{\circ}\text{C}$  and shipped to NIST on dry ice. Samples were combined and cryogenically homogenized, bottled in  $\sim 100$  g aliquots and stored at  $-80^{\circ}\text{C}$ . Samples were then shipped on dry ice to BioIVT and stored at  $-80^{\circ}\text{C}$ . The cryogenically homogenized material was diluted with water to a concentration of 100 mg/mL (cryohomogenized stool/water) and three bacterial strains *Deinococcus radiodurans* (NIST0032), *Brenneria nigrifluens* (NIST0080), and *Deltia acidovorans* (NIST0136) were added to the slurry and homogenized. With constant mixing, a continuous pipettor was used to distribute 1 mL of stool slurry into each sample vial.

**Vegetarian Stool (RM 8048 Part B):** The vegetarian cohort was comprised of four donors for a total of 1,293 g collected (200 g to 300 g collected per donor). Human fecal material collections were coordinated through BioIVT (Hicksville, NY), under informed consent. Donors were self-reported healthy with no antibiotic use within three months of donation. All donors screened for the following infectious agents via blood draw: hepatitis B/C virus, human immunodeficiency virus (types 1 and 2), West Nile virus, syphilis, and Chagas. All donors were required to complete a food diary corresponding to the week around the donations. Stool donations were collected and stored at  $-80^{\circ}\text{C}$  and shipped to NIST on dry ice. Samples were combined and cryogenically homogenized, bottled in  $\sim 100$  g aliquots and stored at  $-80^{\circ}\text{C}$ . Samples were then shipped on dry ice to BioIVT and stored at  $-80^{\circ}\text{C}$ . The cryogenically homogenized material was diluted with water to a concentration of 100 mg/mL (cryohomogenized stool/water) and three bacterial strains *Deinococcus radiodurans* (NIST0032), *Brenneria nigrifluens* (NIST0080), and *Deltia acidovorans* (NIST0136) were added to the slurry and homogenized. With constant mixing, a continuous pipettor was used to distribute 1 mL of stool slurry into each sample vial.

**Analytical Approach for Metagenomic Identification (NIST):** Three replicate vials from each of 10 different boxes were selected for homogeneity and stability testing. For homogeneity testing, one vial from each box was analyzed; for stability, two vials from different boxes were tested at each subsequent time point except for the 12-week time point when vials from six different boxes were tested for the omnivores. For each vial, four replicate DNA extractions were carried out using the Zymo Research Quick-DNA Fecal/Soil Microbe Miniprep Extraction Kit per protocol with the following modification - mechanical disruption was carried out using the Vortex Genie Microtube adapter with the vortex genie set to max rpm for 40 minutes. DNA was eluted and stored at  $4^{\circ}\text{C}$ . Following extraction, the V4 region of the 16S rRNA genes were amplified by PCR and analyzed by next generation sequencing. Read processing and error correction were carried out using CutAdapt and DADA2 (1.20.0), respectively. Taxonomy was assigned based on the silva database (v138). The non-certified taxa results are comprised of the top 50 sequences identified in the homogeneity analysis.

**Analytical Approach for LC-MS/MS Metabolite Identification (NIST):** Metabolite identifications were determined by an untargeted liquid chromatography tandem mass spectrometry (LC-MS/MS)-based metabolomics approach. Each phenotypic donor pool (RM 8048 Part A Omnivore, RM 8048 Part B Vegetarian stool) was prepared using a Bligh & Dyer extraction. Ten vials of each stool material were removed from storage at  $-80^{\circ}\text{C}$  and the entire contents were extracted with a 2:2:1.8 solvent system of methanol:chloroform:water. All samples were vortexed for 1 min each, then allowed to sit on ice for 10 min. Samples were centrifuged for phase separation and the polar layer and non-polar layer were each removed and taken to dryness in a vacuum centrifuge, then immediately stored at  $-80^{\circ}\text{C}$  until analysis. The polar fraction was resuspended in 2 % methanol in water volume fraction prior to LC-MS/MS analysis. The non-polar fraction was resuspended in isopropanol prior to LC-MS/MS analysis. A gradient method with a 0.1 % formic acid in water/0.1 % formic acid in methanol mobile phase and a C18 column was used for polar LC-MS/MS analysis in both positive and negative mode with a data dependent acquisition on two different high resolution MS instruments. For the non-polar fraction, a gradient method with a mobile phase of A: 60:40 acetonitrile:water and B: 90:10 isopropanol:acetonitrile, both with 10 mmol/L ammonium formate and 0.1 % formic acid, and a C30 column were used for non-polar LC-MS/MS analysis in both positive and negative mode

using a data dependent acquisition on a high-resolution MS instrument. The resulting tandem MS spectra were searched using HighChem-HighRes, HighChemDP, and NIST spectral library search algorithms with NIST20 and mzVault (version 2019) libraries. Putative metabolite identifications (MSI level 2 [2]) by spectral library matches and scores for each search algorithm, sample preparation, and instrument were filtered (match score  $\geq 65$ ) and combined.

**Analytical Approach for NMR Metabolite Identification (NIST Method 1):** Metabolite identifications were determined by an untargeted NMR based metabolomics approach. Each phenotypic donor pool (RM 8048 Part A Omnivore, RM 8048 Part B Vegetarian stool) was prepared using a Bligh & Dyer extraction. Ten vials of each stool material were removed from storage at  $-80\text{ }^{\circ}\text{C}$  and the entire contents were extracted with a 2:2:1.8 solvent system of methanol:chloroform:water. All samples were vortexed for 1 min each then allowed to sit on ice for 10 min. Samples were centrifuged for phase separation and the polar layer and non-polar layer were each removed and taken to dryness in a vacuum centrifuge, then immediately stored at  $-80\text{ }^{\circ}\text{C}$  until analysis. The polar fraction was rehydrated in 100 mmol/L sodium phosphate NMR buffer in  $\text{D}_2\text{O}$  containing 1.0 mmol/L sodium 3-Trimethylsilyl 2,2,3,3- $\text{d}_4$  propionate as the chemical shift reference standard. One dimensional  $^1\text{H}$  NMR and two dimensional  $^1\text{H}$ ,  $^{13}\text{C}$ -HSQC spectra were collected, and metabolites were assigned based on chemical shift comparisons using reference spectra from the Human Metabolome Database (HMDB), the Biological Magnetic Resonance Bank (BMRB), and the spectral library in Chenomx NMR Analysis software.

**Analytical Approach for NMR Metabolite Identification (NIST Method 2):** Metabolite identifications were determined by an untargeted NMR-based metabolomics approach. The aqueous portion of 22 vials each phenotypic donor pool (RM 8048 Part A Omnivore, RM 8048 Part B Vegetarian stool) was analyzed after centrifugation for 30 minutes at  $14,000 \times g$  at  $4\text{ }^{\circ}\text{C}$ , then addition of a 100 mmol/L sodium phosphate buffer, 6.15 mmol/L sodium azide, and sodium 2,2-dimethyl- 2 – silapentane-5-sulfonate- $\text{D}_6$  in  $\text{D}_2\text{O}$ . One-dimensional  $^1\text{H}$  spectra were collected, and metabolites were assigned based on chemical shift comparisons using reference spectra from the Human Metabolome Database (HMDB), the Biological Magnetic Resonance Bank (BMRB), and the spectral library in Chenomx NMR Analysis software. An additional aqueous portion of a single vial of each phenotypic donor pool (RM 8048 Part A Omnivore, RM 8048 Part B Vegetarian stool) was analyzed after centrifugation for 30 minutes at  $14,000 \times g$  at  $4\text{ }^{\circ}\text{C}$ , addition of a 100 mmol/L sodium phosphate buffer, and centrifugation for 60 minutes at  $10,000 \times g$  at  $4\text{ }^{\circ}\text{C}$  with a 3 kDa molecular weight filter. The filtrate was then diluted in  $\text{D}_2\text{O}$  containing 100 mmol/L sodium phosphate NMR buffer containing 0.50 mmol/L sodium 2,2-dimethyl- 2- silapentane-5-sulfonate- $\text{D}_6$  (DSS- $\text{D}_6$ ) as the chemical shift reference standard. Two dimensional  $^1\text{H}$ ,  $^{13}\text{C}$ -HSQC spectra were collected, and metabolites were assigned based on chemical shift comparisons using reference spectra from the Human Metabolome Database (HMDB), the Biological Magnetic Resonance Bank (BMRB), and the spectral library in Chenomx NMR Analysis software.

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