

VIOME

VIOME

RICHARD SPRAGUE'S RESULTS

V I O M E

Dear Richard Sprague,

The information on this report is for educational and informational use only. The information is not intended to be used by the customer for any diagnostic purpose and is not a substitute for professional medical advice. You should always seek the advice of your physician or other healthcare providers with any questions you may have regarding diagnosis, cure, treatment, mitigation, or prevention of any disease or other medical condition or impairment or the status of your health.



Jim Fuller

Technical Director

A handwritten signature in black ink, appearing to read 'Jim Fuller', is positioned below the printed name and title.

Test Name:

Stool test

Authorized Order Person:

Richard Sprague

Customer Name:

Richard Sprague

DOB:

XXXXXX

Gender:

Male

Customer Id:

c22f1408

Sample Source:

Fecal

Date Collected:

09/27/2022

Date Received:

09/28/2022

Date Issued:

10/08/2022

Sample ID:

1F4DF236A641

Test Name:

Blood test

Authorized Order Person:

Richard Sprague

Customer Name:

Richard Sprague

DOB:

XXXXXX

Gender:

Male

Customer Id:

c22f1408

Sample Source:

Blood

Date Collected:

09/27/2022

Date Received:

09/28/2022

Date Issued:

10/08/2022

Sample ID:

23D3261

Test Name:

Saliva test

Authorized Order Person:

Richard Sprague

Customer Name:

Richard Sprague

DOB:

XXXXXX

Gender:

Male

Customer Id:

c22f1408

Sample Source:

Saliva

Date Collected:

09/26/2022

Date Received:

09/28/2022

Date Issued:

10/08/2022

Sample ID:

3FA4CF1



Test Name: Gut Intelligence Test, Human Gene Expression Test, Saliva Gene Expression Test

Customer Name: Richard Sprague

DOB: ██████████

Meet your probiotic microbes

These are microbes that are found in commercially available probiotic products that are also active in your sample. If there are no organisms listed, no probiotics were identified in your sample.

Enterococcus faecium

P Probiotic



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Test Name: Gut Intelligence Test, Human Gene Expression Test, Saliva Gene Expression Test

Customer Name: Richard Sprague

DOB: ██████████

My Active Gut Microbes

Actinomyces naeslundii

B Bacterium

Actinomyces sp. oral taxon 169

B Bacterium

Actinomyces sp. oral taxon 897

B Bacterium

Adlercreutzia sp. 8CFCBH1

B Bacterium

Akkermansia muciniphila

B Bacterium

Alistipes communis

B Bacterium

Alistipes dispar

B Bacterium

Alistipes indistinctus

B Bacterium

Alistipes megaguti

B Bacterium

Alistipes sp. dk3624

B Bacterium

Amedibacterium intestinale

B Bacterium

Anaerobutyricum hallii

B Bacterium



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Customer Name: Richard Sprague

DOB: ██████████

Anaerostipes hadrus

B Bacterium

Arachnia propionica F0230a

B Bacterium

Aspergillus flavus

E Eukaryote

Bacteroides caccae

B Bacterium

Bacteroides cellulosilyticus

B Bacterium

Bacteroides dorei CL03T12C01

B Bacterium

Bacteroides fragilis 638R

B Bacterium

Bacteroides intestinalis

B Bacterium

Bacteroides ovatus

B Bacterium

Bacteroides sp. A1C1

B Bacterium

Bacteroides sp. CACC 737

B Bacterium

Bacteroides sp. CBA7301

B Bacterium

Bacteroides sp. HF-162

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Bacteroides sp. HF-5141

B Bacterium

Bacteroides sp. HF-5287

B Bacterium

Bacteroides sp. PHL 2737

B Bacterium

Bacteroides thetaiotaomicron VPI-5482

B Bacterium

Bacteroides uniformis

B Bacterium

Bacteroides vulgatus ATCC 8482

B Bacterium

Bacteroides xylanisolvens

B Bacterium

Bifidobacterium breve

B Bacterium **P** Probiotic

Blautia producta ATCC 27340 = DSM 2950

B Bacterium

Blautia sp. SC05B48

B Bacterium

Blueberry shock virus

V Virus

Bordetella trematum

B Bacterium

Butyricimonas faecalis

B Bacterium



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Customer Name: Richard Sprague

DOB: ██████████

Butyrivibrio fibrosolans

B Bacterium

Candidatus Methanomassiliicoccus intestinalis Isoire-Mx1

A Archaeon

Clostridioides difficile

B Bacterium

Clostridium perfringens

B Bacterium

Coprobacter sp. 2CBH44

B Bacterium

Coprococcus comes

B Bacterium

Desulfovibrio fairfieldensis

B Bacterium

Dialister hominis

B Bacterium

Dialister massiliensis

B Bacterium

Dysosmobacter welbionis

B Bacterium

Enterocloster bolteae

B Bacterium

Enterococcus faecalis ARO1/DG

B Bacterium

Enterococcus faecalis ATCC 29212

B Bacterium



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DOB: ██████████

Enterococcus faecalis D32

B Bacterium

Enterococcus faecalis str. Symbioflor 1

B Bacterium

Enterococcus gilvus

B Bacterium

Enterococcus saigonensis

B Bacterium

Eptesicus fuscus gammaherpesvirus

V Virus

Eubacterium callanderi

B Bacterium

Eubacterium limosum

B Bacterium

Eubacterium sp. NSJ-61

B Bacterium

Faecalibacillus intestinalis

B Bacterium

Faecalibacterium prausnitzii A2-165

B Bacterium

Flavonifractor plautii

B Bacterium

Flintibacter sp. KGMB00164

B Bacterium

Gemella sanguinis

B Bacterium



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DOB: [REDACTED]

Intestinimonas butyriciproducens

B Bacterium

Lachnoclostridium phocaeense

B Bacterium

Lactobacillus paragasseri

B Bacterium

Lactococcus raffinolactis

B Bacterium

Longibaculum sp. KGMB06250

B Bacterium

Massilistercora timonensis

B Bacterium

Methanobrevibacter smithii ATCC 35061

A Archaeon

Mogibacterium diversum

B Bacterium

Odoribacter splanchnicus DSM 20712

B Bacterium

Oscillibacter sp. PEA192

B Bacterium

Oxalobacter formigenes OXCC13

B Bacterium

Parabacteroides distasonis ATCC 8503

B Bacterium

Parabacteroides sp. CT06

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Pepper mild mottle virus

V Virus

Persea americana chrysovirus

V Virus

Phascolarctobacterium faecium

B Bacterium

Phocaeicola coprophilus

B Bacterium

Pyrenophora tritici-repentis

E Eukaryote

Ralstonia insidiosa

B Bacterium

Roseburia hominis A2-183

B Bacterium

Ruminococcus bicirculans

B Bacterium

Ruminococcus sp. JE7A12

B Bacterium

Ruthenibacterium lactatiformans

B Bacterium

Saccharomyces pastorianus

E Eukaryote

Streptococcus anginosus

B Bacterium

Streptococcus australis

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Streptococcus intermedius

B Bacterium

Streptococcus oralis

B Bacterium

Streptococcus salivarius JIM8777

B Bacterium

Streptococcus sanguinis SK36

B Bacterium

Streptococcus sp. A12

B Bacterium

Streptococcus sp. LPB0220

B Bacterium

Streptococcus thermophilus MN-ZLW-002

B Bacterium

Streptococcus vestibularis

B Bacterium

Tobacco mild green mosaic virus

V Virus

Turicibacter sanguinis

B Bacterium

Turicibacter sp. H121

B Bacterium

Valsa mali

E Eukaryote

[Clostridium] innocuum

B Bacterium



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DOB: ██████████

[Clostridium] scindens ATCC 35704

B Bacterium



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DOB: ██████████

My Active Oral Microbes

Abiotrophia defectiva

B Bacterium

Acholeplasma brassicae

B Bacterium

Acinetobacter johnsonii

B Bacterium

Actinomyces naeslundii

B Bacterium

Actinomyces pacaensis

B Bacterium

Actinomyces sp. HMT 175

B Bacterium

Actinomyces sp. oral taxon 169

B Bacterium

Actinomyces sp. oral taxon 414

B Bacterium

Actinomyces viscosus

B Bacterium

Angomonas deanei

E Eukaryote

Arachnia propionica F0230a

B Bacterium

Aspergillus flavus

E Eukaryote



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DOB: [REDACTED]

Bacteroides heparinolyticus

B Bacterium

Candidatus Nanosynbacter lyticus

B Bacterium

Capnocytophaga endodontalis

B Bacterium

Capnocytophaga gingivalis

B Bacterium

Capnocytophaga haemolytica

B Bacterium

Capnocytophaga leadbetteri

B Bacterium

Capnocytophaga sp. FDAARGOS_737

B Bacterium

Capnocytophaga sp. oral taxon 323

B Bacterium

Capnocytophaga sp. oral taxon 864

B Bacterium

Capnocytophaga sp. oral taxon 878

B Bacterium

Capnocytophaga sp. oral taxon 902

B Bacterium

Capnocytophaga sputigena

B Bacterium

Cardiobacterium hominis

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Corynebacterium matruchotii

B Bacterium

Cutibacterium acnes C1

B Bacterium

Cutibacterium acnes TypeIA2 P.acn33

B Bacterium

Dialister pneumosintes

B Bacterium

Dolosigranulum pigrum

B Bacterium

Eikenella corrodens

B Bacterium

Enterococcus faecalis ATCC 29212

B Bacterium

Enterococcus faecalis OG1RF

B Bacterium

Enterococcus faecalis str. Symbioflor 1

B Bacterium

Enterococcus faecium

B Bacterium **P** Probiotic

Erysipelothrix rhusiopathiae

B Bacterium

Exophiala phaeomuriformis

E Eukaryote

Faecalibacterium prausnitzii

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Fusobacterium canifelinum

B Bacterium

Fusobacterium hwasookii ChDC F174

B Bacterium

Fusobacterium hwasookii ChDC F206

B Bacterium

Fusobacterium hwasookii ChDC F300

B Bacterium

Fusobacterium periodonticum

B Bacterium

Fusobacterium pseudoperiodonticum

B Bacterium

Gemella haemolysans

B Bacterium

Gemella morbillorum

B Bacterium

Gemella sanguinis

B Bacterium

Haemophilus haemolyticus

B Bacterium

Haemophilus parahaemolyticus

B Bacterium

Haemophilus parainfluenzae T3T1

B Bacterium

Haemophilus pittmaniae

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Haemophilus sp. oral taxon 036

B Bacterium

Kingella denitrificans

B Bacterium

Kingella oralis

B Bacterium

Kluyveromyces marxianus

E Eukaryote

Kurthia sp. 11kri321

B Bacterium

Lachnoanaerobaculum umeaense

B Bacterium

Lautropia mirabilis

B Bacterium

Leptotrichia shahii

B Bacterium

Leptotrichia sp. oral taxon 212

B Bacterium

Leptotrichia sp. oral taxon 498

B Bacterium

Leptotrichia sp. oral taxon 847

B Bacterium

Leptotrichia trevisanii

B Bacterium

Leptotrichia wadei

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Malassezia restricta

E Eukaryote

Mogibacterium diversum

B Bacterium

Murdochiella vaginalis

B Bacterium

Mycoplasma orale

B Bacterium

Mycoplasma salivarium

B Bacterium

Neisseria elongata subsp. glycolytica

B Bacterium

Neisseria elongata subsp. glycolytica ATCC 29315

B Bacterium

Neisseria flavescens

B Bacterium

Neisseria lactamica 020-06

B Bacterium

Neisseria meningitidis

B Bacterium

Neisseria mucosa

B Bacterium

Neisseria polysaccharea

B Bacterium

Neisseria sicca

B Bacterium



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Customer Name: Richard Sprague

DOB: [REDACTED]

Neisseria subflava

B Bacterium

Odoribacter splanchnicus DSM 20712

B Bacterium

Olsenella sp. oral taxon 807

B Bacterium

Parvimonas micra

B Bacterium

Pepper mild mottle virus

V Virus

Porphyromonas gingivalis

B Bacterium

Prevotella denticola

B Bacterium

Prevotella enoeca

B Bacterium

Prevotella jejuni

B Bacterium

Prevotella melaninogenica ATCC 25845

B Bacterium

Prevotella oris

B Bacterium

Pseudoleptotrichia goodfellowii

B Bacterium

Pseudomonas sp. pHDV1

B Bacterium



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Customer Name: Richard Sprague

DOE [REDACTED]

Pyrenophora tritici-repentis

E Eukaryote

Ralstonia insidiosa

B Bacterium

Ralstonia mannitolilytica

B Bacterium

Rhodococcus qingshengii

B Bacterium

Rothia aeria

B Bacterium

Rothia dentocariosa ATCC 17931

B Bacterium

Rothia mucilaginosa DY-18

B Bacterium

Schaalia meyeri

B Bacterium

Schaalia odontolytica

B Bacterium

Selenomonas sp. oral taxon 136

B Bacterium

Selenomonas sp. oral taxon 478

B Bacterium

Selenomonas sp. oral taxon 920

B Bacterium

Staphylococcus epidermidis PM221

B Bacterium



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Staphylococcus epidermidis RP62A

B Bacterium

Streptococcus anginosus

B Bacterium

Streptococcus australis

B Bacterium

Streptococcus constellatus subsp. pharyngis C1050

B Bacterium

Streptococcus constellatus subsp. pharyngis C232

B Bacterium

Streptococcus constellatus subsp. pharyngis C818

B Bacterium

Streptococcus equinus

B Bacterium

Streptococcus gwangjuense

B Bacterium

Streptococcus intermedius B196

B Bacterium

Streptococcus intermedius C270

B Bacterium

Streptococcus intermedius JTH08

B Bacterium

Streptococcus koreensis

B Bacterium

Streptococcus milleri

B Bacterium



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Customer Name: Richard Sprague

DOB: 04/01/1965

Streptococcus mitis B6

B Bacterium

Streptococcus mitis NCTC 12261

B Bacterium

Streptococcus mutans

B Bacterium

Streptococcus oralis ATCC 35037

B Bacterium

Streptococcus oralis Uo5

B Bacterium

Streptococcus oralis subsp. dentisani

B Bacterium

Streptococcus oralis subsp. tigurinus

B Bacterium

Streptococcus salivarius CCHSS3

B Bacterium

Streptococcus salivarius JIM8777

B Bacterium

Streptococcus sanguinis SK36

B Bacterium

Streptococcus sp. 116-D4

B Bacterium

Streptococcus sp. 1643

B Bacterium

Streptococcus sp. A12

B Bacterium



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Customer Name: Richard Sprague



Streptococcus sp. FDAARGOS_192

B Bacterium

Streptococcus sp. I-G2

B Bacterium

Streptococcus sp. I-P16

B Bacterium

Streptococcus sp. LPB0220

B Bacterium

Streptococcus sp. NPS 308

B Bacterium

Streptococcus sp. oral taxon 061

B Bacterium

Streptococcus sp. oral taxon 431

B Bacterium

Streptococcus suis

B Bacterium

Streptococcus thermophilus

B Bacterium

Streptococcus vestibularis

B Bacterium

Streptococcus viridans

B Bacterium

Tannerella sp. oral taxon HOT-286

B Bacterium

Tobacco mild green mosaic virus

V Virus



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Treponema medium

B Bacterium

Treponema sp. OMZ 804

B Bacterium

Treponema sp. OMZ 838

B Bacterium

Veillonella atypica

B Bacterium

Veillonella dispar

B Bacterium

Veillonella nakazawae

B Bacterium

Veillonella parvula DSM 2008

B Bacterium

Veillonella rodentium

B Bacterium

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Viome Methodology

Microbial total RNA is extracted, ribosomal RNA molecules are removed from total RNA, and the remaining RNA molecules are sequenced on Illumina NextSeq or NovaSeq. Proprietary bioinformatics algorithms are used to perform taxonomic classification and functional analysis of the sequencing data.

Whole blood total RNA is extracted, polyadenylated transcripts are captured from total RNA and sequenced on Illumina NextSeq or NovaSeq. Proprietary bioinformatics algorithms are used to perform quantitative gene expression analysis of the sequencing data. Results are reported to Viome customers in the context of integrative functional health themes communicated as scores derived largely from proprietary pathway content and analytics methodology. Each score is built to account for molecular pathway topology and strength of literature evidence manually curated by translational science experts in systems biology. Scoring results are CLIA-validated and are end-to-end automated in the production system, which uses each customer's gene expression data as input.

Method Limitation

Viome's results and recommendations are based on our ability to identify and quantify thousands of microbial taxa. Such vast diversity has not been captured in the genomic databases, so it is impossible to assess it comprehensively. There are microorganisms that thrive in the gut whose genomes have not been sequenced. Viome is unable to identify those specific organisms, but can identify their near neighbors, which have similar homology. There are also taxa that we cannot discriminate because of their sequence similarity, for example at the strain level. There are some RNA transcripts that may not always align and match to specific known organisms, which may be due to the fact that these sequences are poorly characterized, reliable consensus sequence may not be available for reference. Viome monitors the growth of public genomic databases and will update its own databases when there is sufficient new information to be worthy of incorporation.

Detection of a microorganism by this test does not imply having a disease. Similarly, not detecting a microorganism by this test does not exclude the presence of a disease-causing microorganism. Further, other organisms may be present that are not detected by this test. This test is not a substitute for established methods for identifying microorganisms or their antimicrobial susceptibility profile. Results are qualitative and identify the presence or absence of identified annotated organisms.

Viome's results and recommendations are based on our ability to identify and quantify thousands of human transcripts. While the test has been clinically validated and shows very high precision, it also has some limitations. As the presence of transcripts nears the limits of detection, the ability of the test to accurately detect them is diminished. This is simply due to the uneven distribution of molecules in liquid volumes, causing small random changes in the transcript concentrations. Scores rely on detection of expressed genes, as well as their levels of expression against the reference population cohort. Hence, certain sample results may be affected by any skewing or sampling biases of the reference cohort, as opposed to solely the biology of the given customer. Scores also are limited by our current understanding of actionable or biologically



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meaningful insights and literature coverage to date. As Viome's reference population expands and current knowledge grows, these limitations become more negligible.

The Gut Intelligence Test was developed by, and its performance characteristics determined by Viome Inc. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is registered under CLIA (50D2224932) to perform high complexity testing. Sequencing was performed at Viome Inc. CLIA (50D2224932). Contact Viome for any further questions.

The Human Gene Expression test was developed by, and its performance characteristics determined by Viome Inc. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is registered under CLIA 50D2224932 to perform high complexity testing. Sequencing was performed at Viome, Inc. CLIA 50D2224932. Contact Viome for any further questions.



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V I O M E

RICHARD SPRAGUE'S RESULTS

VERSION: 1.14.2

These results are signed off by...

Jim Fuller

Technical Director

A handwritten signature in black ink that reads "Jim Fuller". The signature is written in a cursive style with a large, looped initial "J".