

## Microbiome Information for: d-lactic acidosis (one form of brain fog)

### For prescribing Medical professionals Review

The suggestions below are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies has found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is beleived to reduce the severity of symptoms. In some cases, this correction may cause symptoms to disappear.

These are *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. Suggestions should *only be done after a review* by a medical professional factoring in patient's conditions, allergies and other issues.

**This report may be freely shared by a patient to their medical professionals**

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Best practise for making microbiome adjustments is to obtain the individuals microbiome. The following are the best microbiome to use with this expert system model. The suggestions below are intended as temporary suggestions until a test result in received.

In the USA

Ombre (<https://www.ombrelab.com/>)

Thome (<https://www.thome.com/products/dp/gut-health-test>)

Worldwide: BiomeSight (<https://biomesight.com>) - Discount Code 'MICRO'

### Analysis Provided by Microbiome Prescription

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of d-lactic acidosis (one form of brain fog)

*Nota Bena:* Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

| Bacteria Name                                           | Rank    | Shift | Taxonomy ID | Bacteria Name                               | Rank       | Shift | Taxonomy ID |
|---------------------------------------------------------|---------|-------|-------------|---------------------------------------------|------------|-------|-------------|
| Leuconostoc                                             | genus   | High  | 1243        | Lentilactobacillus buchneri                 | species    | High  | 1581        |
| Salmonella                                              | genus   | High  | 590         | Leuconostoc citreum                         | species    | High  | 33964       |
| Sporolactobacillus                                      | genus   | High  | 2077        | Leuconostoc gelidum                         | species    | High  | 1244        |
| Weissella                                               | genus   | High  | 46255       | Leuconostoc mesenteroides                   | species    | High  | 1245        |
| Salmonella enterica subsp. enterica serovar Enteritidis | no rank | High  | 149539      | Ligilactobacillus salivarius                | species    | High  | 1624        |
| Escherichia coli                                        | species | High  | 562         | Limosilactobacillus fermentum               | species    | High  | 1613        |
| Lactacaseibacillus casei                                | species | High  | 1582        | Limosilactobacillus mucosae                 | species    | High  | 97478       |
| Lactacaseibacillus rhamnosus                            | species | High  | 47715       | Limosilactobacillus reuteri                 | species    | High  | 1598        |
| Lactiplantibacillus plantarum                           | species | High  | 1590        | Listeria monocytogenes                      | species    | High  | 1639        |
| Lactobacillus acidophilus                               | species | High  | 1579        | Methylobacterium sp. DH-1                   | species    | High  | 1727196     |
| Lactobacillus crispatus                                 | species | High  | 47770       | Neisseria meningitidis                      | species    | High  | 487         |
| Lactobacillus delbrueckii                               | species | High  | 1584        | Pseudomonas syringae                        | species    | High  | 317         |
| Lactobacillus gasseri                                   | species | High  | 1596        | Staphylococcus aureus                       | species    | High  | 1280        |
| Lactobacillus johnsonii                                 | species | High  | 33959       | Streptococcus pneumoniae                    | species    | High  | 1313        |
| Lactococcus lactis                                      | species | High  | 1358        | Weissella soli                              | species    | High  | 155866      |
| Lactococcus piscium                                     | species | High  | 1364        | Lactacaseibacillus rhamnosus GG             | strain     | High  | 568703      |
|                                                         |         |       |             | Lactobacillus delbrueckii subsp. bulgaricus | subspecies | High  | 1585        |

## Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

Avena sativa x Hordeum vulgare {barley,oat}

Bovine Milk Products {Dairy}

dietary fiber

Fiber, total dietary

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

High-fibre diet {Whole food diet}

Hordeum vulgare {Barley} 60 gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

oligosaccharides {oligosaccharides}

polyphenols 3 gram/day

resveratrol-pterostilbene {grapes, blueberries} 2 gram/day

Slow digestible carbohydrates. {Low Glycemic}

whole-grain diet

yogurt

## Retail Probiotics

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

theramedix / probiotic  
 jarrow formula / ideal bowel support® lp299v®  
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
 Physician Choice / 60 Billion Probiotics  
 nature's way (au) / restore probiotic bowel & colon health 30s  
 Global Healing Center / FloraTrex  
 Physis / Advance Probiotics  
 Swiss BioEnergetics / Full Spectrum Probiotic Defence  
 NaturalPharma / Profit Probiotics  
 Advanced Bio-Cultures / Advance Multi Strain Probiotics  
 nature's way (au) / restore probiotic 100 billion  
 nature's way (au) / restore probiotic daily health 90s  
 nature's way (au) / restore probiotic 30 billion 30s  
 blackmores (au) / probiotics + adults daily (90 capsules)  
 blackmores (au) / probiotics+ immune defence  
 blackmore (au) / probiotics+ eczema relief  
 blackmore (au) / probiotics+ daily health  
 Realdose  
 Windlove Probiotics / Ecologic®825  
 ASEA VIA / BIOME  
 Seeking Health / Probiota HistaminX  
 CustomProbiotics.com / L. Plantarum Probiotic Powder  
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM  
 HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
 HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL  
 OMNI-BIOTIC®/ 10 AAD  
 OMNI-BIOTIC®/ TRAVEL  
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis  
 7 AM Ultra Probiotics  
 LiveWell Nutrition / Pro-45  
 Garden of Life / Dr. Formulated Once Daily Women's  
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
 Metabolics / Lactobacillus Plantarum Powder  
 Invivo / Bio.Me Femme UT  
 ImmuneBiotech Medical Sweden AB / GutMagnific®  
 Bromatech (IT) / Adomelle  
 Smidge / Sensitive Probiotic  
 Ombre / Mood Enhancer  
 Ombre / Healthy Gut  
 Ombre / Heart Health  
 Ombre / Ultimate Immunity  
 Krauterhaus / Lactopro  
 Dr. Mercola / Complete Probiotics  
 Lake Avenue Nutrition / Probiotics 10 Strain Blend  
 MegaFood / MegaFlora  
 ProBioMax® Daily DF  
 Resbiotic / resB® Lung Support  
 SuperSmart / ProBio Forte  
 SuperSmart / Full Spectrum Probiotic Formula  
 SuperSmart / Candalb  
 SuperSmart / Derma Relief  
 SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)  
 SuperSmart / Lactoxira

Bromatech(IT) / FEMELLE  
Northwest Natural Products / PB8  
Floradapt Cardio  
Floradapt Gut Comfort  
HMF Metabolic  
Immune Defense Daily Chewable Probiotic  
Nature's Lab Cardio  
Nature's Lab Intensive GI  
Purica Probiotic Cardio  
Purica Probiotic Intensive GI  
Symprove™  
UltraFlora® Immune Booster  
UltraFlora® Intensive Care  
Maple Life Science™ / Lactobacillus plantarum  
Wakunaga / Max Probiotic  
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains  
Bulk Probiotics / L. Plantarum Probiotic Powder  
Next Generation  
natviehealthcare.com/Renewbiome Mega  
bioglan bio (au) / happy probiotic 100  
bioglan bio (au) / happy probiotic 50  
jarrow formulas / bifidus balance® + fos  
jarrow formulas / jarro-dophilus® ultra  
newrhythm / probiotics 20 stains  
naturopathica (au) / gastrohealth fibrepro  
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion  
biospec / probiotic-5  
zint nutrition / probiotic collagen +  
elixa / probiotic  
1 md / complete probiotics platinum  
renew life / ultimate flora  
garden of life / primal defense  
hyperbiotics / pro-15  
jarrow formula / jarro-dophilus original  
custom probiotics / four strain lactobacilli  
custom probiotics / six strain probiotic powder  
renew life men's probiotic - ultimate  
lifted naturals / mood boosting probiotic  
vita miracle / ultra-30 probiotics  
bioray / cytoflora  
seed / female version  
seed / male version  
quantum wellness / restora flora  
nature's bounty / probioti 10  
solaray / microbiome probiotic colon formula  
ferring / vsl#3  
fairvital / microflora basic  
fürstenmed / lacto-bifido  
jarrow formulas / jarro-dophilus eps  
udo's choice / super 8 gold  
spain (es) / I3.1  
spain (es) / vivomixx  
goodbelly drink  
visbiome  
young living / life 9  
optibac / for your cholesterol  
probiotic pur (de) / realdose nutrition  
organic 3 / gutpro

**organic 3 / primal gut**

**up4 / ultra**

**up4 / adult**

**up4 / women's**

**douglas laboratories / multi probiotic 40 billion**

**vinco / probiotic eight 65**

**Note: Some of these are only available regionally – search the web for sources.**

## Substance to Consider Reducing or Eliminating

These are the most significant substances have been identified as probably contributing to the microbiome dysfunction.

In some cases blood work may show low levels of some vitamins, etc. listed below. This may be due to *greedy* bacteria reported at a high level above. Viewing bacteria data on the Kyoto Encyclopedia of Genes and Genomes (<https://www.kegg.jp/>) may provide better insight on the course of action to take.

2H-1?6,2-benzothiazol-1,1,3-trione {Saccharin}

amoxicillin [CFS]

ampicillin [CFS]

Azadirachta indica {Neem}

benzylpenicillin sodium (antibiotic)

chloramphenicol

ciprofloxacin [CFS]

Diferuloylmethane {Curcumin}

Ferrum {Iron Supplements}

neomycin [CFS]

Propolis {Bee glue}

rifampicin

rosmarinus officinalis {rosemary}

Sodium Chloride {Salt}

$\beta$ -(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine

{Chitosan}

syzygium aromaticum {clove}

tetracycline

Thymus vulgaris {thyme}

vancomycin (antibiotic)[CFS]

Zingiber officinale Roscoe {ginger}

## Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

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Authors Remund B,Yilmaz B,Sokollik C

### D-Lactate: Implications for Gastrointestinal Diseases.

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### In vitro assessment of histamine and lactate production by a multi-strain synbiotic.

**Journal of food science and technology** , Volume: 59 Issue: 9 2022 Sep

Authors Stuivenberg G,Daisley B,Akouris P,Reid G

Lactate production by Staphylococcus aureus biofilm inhibits HDAC11 to reprogramme the host immune response during persistent infection.

**Nature microbiology** , Volume: 5 Issue: 10 2020 Oct

Authors Heim CE,Bosch ME,Yamada KJ,Aldrich AL,Chaudhari SS,Klinkebiel D,Gries CM,Alqarzaee AA,Li Y,Thomas VC,Seto E,Karpf AR,Kielian T

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**The Plant journal : for cell and molecular biology** , Volume: 102 Issue: 4 2020 May

Authors Lee SM,Kim SK,Lee N,Ahn CY,Ryu CM

Efficient production of d-lactate from methane in a lactate-tolerant strain of Methylomonas sp. DH-1 generated by adaptive laboratory evolution.

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Successful correction of D-lactic acid neurotoxicity (drunken lamb syndrome) by bolus administration of oral sodium bicarbonate.

**The Veterinary record** , Volume: 173 Issue: 8 2013 Aug 31

Authors Angell JW,Jones GL,Voigt K,Grove-White DH

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**Authors Han X,Gao R,Ding S,Yao H,Fang J,Liu G**

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Epilepsy  
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Food Allergy  
Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
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Glioblastoma  
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Hidradenitis Suppurativa  
High Histamine/low DAO  
hypercholesterolemia (High Cholesterol)  
hyperglycemia

Hyperlipidemia (High Blood Fats)  
hypersomnia  
hypertension (High Blood Pressure)  
Hypothyroidism  
Hypoxia  
IgA nephropathy (IgAN)  
Inflammatory Bowel Disease  
Insomnia  
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Intracranial aneurysms  
Irritable Bowel Syndrome  
ischemic stroke  
Juvenile idiopathic arthritis  
Liver Cirrhosis  
liver fibrosis  
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Low bone mineral density  
Lung Cancer  
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ME/CFS with IBS  
ME/CFS without IBS  
membranous nephropathy  
Menopause  
Metabolic Syndrome  
Mood Disorders  
multiple chemical sensitivity [MCS]  
Multiple Sclerosis  
Multiple system atrophy (MSA)  
myasthenia gravis  
neuropathic pain  
Neuropathy (all types)  
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Obesity  
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Primary sclerosing cholangitis  
Psoriasis  
rheumatoid arthritis (RA),Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
scoliosis  
sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
Slow gastric motility / Gastroparesis  
Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder

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