

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

For non-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

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

A Microbiome Analysis Company

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[Our Facebook Discussion Page](#)

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.

(2->1)-beta-D-fructofuranan {Inulin}	32 gram/day	lactobacillus acidophilus {L. acidophilus}	20 BCFU/day
arabinogalactan {arabinogalactan}	21 gram/day	Lactobacillus plantarum {L. plantarum}	60 BCFU/day
Avena sativa x Hordeum vulgare {barley,oat}		laminaria digitata {Oarweed}	
bacillus subtilis {B.Subtilis }	10 BCFU/day	Malus domestica {apple}	
Bifidobacterium animalis subsp. lactis {B. Lactis}	1 BCFU/day	oligosaccharides {oligosaccharides}	
bifidobacterium longum {B.Longum }	10 BCFU/day	Outer Layers of Triticum aestivum {Wheat Bran}	
Bovine Milk Products {Dairy}		pectin {pectin}	
Fermented Brassica oleracea {Sauerkraut}		polyphenols	3 gram/day
fructo-oligosaccharides	15 gram/day	raffinose {sugar beet}	
fruit		resveratrol-pterostilbene {grapes, blueberries}	2 gram/day
fruit/legume fibre		soy	25 gram/day
Grape Polyphenols {Grape Flavonoids}		β-glucan {Beta-Glucan}	500 mg/day
Hordeum vulgare {Barley}	60 gram/day	yogurt	

Retail Probiotics

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

Global Healing Center / FloraTrex
 Realdose
 probiotic pur (de) / realdose nutrition
 theramedix / probiotic
 nature's way (au) / restore probiotic bowel & colon health 30s
 garden of life / primal defense
 SuperSmart / Full Spectrum Probiotic Formula
 quantum wellness / restora flora
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 Physician Choice / 60 Billion Probiotics
 organic 3 / primal gut
 lifted naturals / mood boosting probiotic
 hyperbiotics / pro-15
 nature's way (au) / restore probiotic 100 billion
 seed / male version
 solaray / mycrobio probiotic colon formula
 Physis / Advance Probiotics
 Dr. Mercola / Complete Probiotics
 Garden of Life / Dr. Formulated Once Daily Women's
 Wakunaga / Max Probiotic
 MegaFood / MegaFlora
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 HMF Metabolic
 blackmores (au) / probiotics+ immune defence
 1 md / complete probiotics platinum
 OMNI-BIOTIC® / 10 AAD
 young living / life 9
 nature's bounty / probioti 10
 organic 3 / gutpro
 Northwest Natural Products / PB8
 vita miracle / ultra-30 probiotics
 Next Generation
 Probiotic 10 Billion Active Cells Daily Maintenance
 optibac / for every day
 renew life men's probiotic - ultimate
 ferring / vsl#3
 visbiome
 up4 / adult
 douglas laboratories / multi probiotic 40 billion
 newrhythm / probiotics 20 strains
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 Lake Avenue Nutrition / Probiotics 10 Strain Blend
 ASEA VIA / BIOME
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
 udo's choice / super 8 gold
 Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
 ProBioMax® Daily DF
 bioglan bio (au) / happy probiotic 100
 LiveWell Nutrition / Pro-45
 spain (es) / vivomixx
 Advanced Bio-Cultures / Advance Multi Strain Probiotics
 elixa / probiotic
 bioray / cytoflora

renew life / ultimate flora
up4 / ultra
quality health(au)/ fridge free probiotic 25b
genestra brands® hm
HLH BIOPHARMA(DE) / LACTOBACT ® AAD
jarrow formulas / bifidus balance® + fos
HMF Intensive
naturopathica (au) / gastrohealth probiotic adults 50+
SuperSmart / Lactoxira
Wholesome Wellness / Raw Probiotic
zint nutrition / probiotic collagen +
Smidge / Sensitive Probiotic
Krauterhaus / Lactopro
jarrow formula / jarro-dophilus original
nature's way (au) / restore probiotic daily health 90s
Bromatech(IT) / FEMELLE
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
SuperSmart / Candalb
custom probiotics / four strain lactobacilli
fürstenmed / lacto-bifido
Windlove Probiotics / Ecologic®825
blackmores (au) / probiotics + adults daily (90 capsules)
Ombre / Mood Enhancer
jamieson (can) / probiotic 10 bcfu
Resbiotic / resB® Lung Support
naturopathica (au) / gastrohealth fibrepro
klair labs / target gb-x
7 AM Ultra Probiotics
Jetson / FIT
Seeking Health / Probiota HistaminX
jarrow formula / ideal bowel support® lp299v®
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
bravo europe / starter and complex
SuperSmart / Probio Forte
Ombre / Heart Health
klair labs / ther-biotic factor 4
Symprove™
optibac / for every day max
seed / female version
jarrow formulas / jarro-dophilus® ultra
PoolPharma (IT) / ProbioTKMIO
Bromatech (IT) / Adomelle
up4 / women's
optibac / bifidobacteria & fibre
HMF Forte
Bioflora(MX) / Woman
fairvital / microflora basic
Ombre / Healthy Gut
ISCON Elegance/ Ochek Capsule 10
CVSHealth / Daily Probiotic
custom probiotics / six strain probiotic powder
FloraVantage® Balance
OMNI-BIOTIC®/ TRAVEL
spain (es) / profaes4 viajeros
spain (es) / profaes4 edad escolar
Invivo / Bio.Me Femme UT
blackmore (au) / probiotics+ bowel support
vinco / probiotic eight 65

HMF IBS Relief
Ombre / Metabolic Booster
nature's way (au) / restore probiotic 30 billion 30s
cytoplan(uk) / dentavital bifidophilus
bioglan bio (au) / happy probiotic 50
blackmore (au) / probiotics+ daily health
NOW FOODS / Clinical GI Probiotic
NaturalPharma / Profit Probiotics
powerlabs (au) / ultra blend
FloraVantage® Control
natren / healthy trinity probiotic
Purica Probiotic Cardio
ecology_allergycare
Activia®
PrecisionBiotics / Immune
UltraFlora® Control
Bromatech (IT) / Ramnoselle
Genesis Bifidobacterium Complex BB Probiotic
CustomProbiotics.com / B. Longum Probiotic Powder
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
trubiotics / one a day
Maple Life Science™ / Lactobacillus plantarum
Law of Nature / Best Days Formula
quality health (au) / fridge free* probiotic 60s
Floradapt Cardio
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
naturopathica (au) / gastrohealth probiotic daily care
Maple Life Science™ / Bifidobacterium Animalis
Wakunaga / Pro+ Synbiotic
bio-botanical research / proflo4r restorative probiotic
nature's instincts / ultra spore probiotic
Biorela® Daily
Bulk Probiotics / L. Acidophilus Probiotic Powder
gnc / ultra probiotic complex
Bromatech (IT) / Milonet
perfect pass / perfect pass probiotic bacillus spore
Probiotic Sticks
jarrow formulas / jarro-dophilus mood
speer labs / emuaid first defense
global health trax / threelac
solgar / advanced acidophilus plus
UltraFlora® Intensive Care
microbiome labs / hu58
anabolic laboratories / probiotic complete
ImmuneBiotech Medical Sweden AB / GutMagnific®
Bromatech (IT) / Citogenex
HLH BIOPHARMA(DE) / LACTOBACT ® FORTE
Bromatech (IT) / Serobiome
Nu U (uk) / Bio-Cultures Complex
biospec / probiotic-5
corebiotic
just for tummies / live bacteria
PharmExtracta (IT) / Gliadines buccal stickpacks
CustomProbiotics.com / L. Plantarum Probiotic Powder
SuperSmart / Oral Health
Energybalance / ColoBiotica 28 Colon Support
naturopathica (au) / gastrohealth women's probiotic with cranberry
nature's way (au) / restore probiotic choc balls 60s

Sanogermine / AB-Kolicare
klair labs / biospora
Bromatech / ENTERELLE PLUS
SuperSmart / Derma Relief
Ombre / Harmony
UltraFlora® Immune Booster
Nutrition Essentials / Probiotic (900 BCFU)
mwsb / candida yeast support
microbiome labs/ megasporebiotic
Wakunaga / 50+
InnovixLabs / Mood Probiotic
Optibac Probiotics / Bifidobacterium lactis HN019
bravo europe / freeze-dried bravo
goodbelly drink
enviromedica terraflora sbo probiotic
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
Microbiome Labs / ZENBIOME Dual
canada (ca) / calmibiotic
Jetson (US) / Mood Probiotics
Bromatech (IT) / Bifiselle
wakamoto (jp) / wakamoto pharmaceutical intestinal drug
custom probiotics / five strain bifidobacteria
Wakunaga / Daily Probiotic
Nature's Bounty / Acidophilus Probiotic
UltraFlora® Restore
bioglan (au) / healthy kids probiotic choc balls 50s
Prescript-Assist®/SBO Probiotic
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
solgar / advanced 40+ acidophilus
Schwabe Pharma Italia / EnteroDophilus
jarrow formulas / jarro-dophilus eps
spain (es) / ns defenbiotic kids
philips / colon health
Sash Vitality /Bio-Cultures Probiotics for Adults
blackmore (au) / probiotics+ eczema relief
Metabolics / Lactobacillus Acidophilus
SuperSmart / Vaginal Health
Bulk Probiotics / L. Plantarum Probiotic Powder
spain (es) / I3.1
Align / Align® Chewables
bioglan bio (au/ happy probiotic 25
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
custom probiotics / d-lactate free probiotics powder
optibac / for those on antibiotics
shin biofermin (jp) /s
Thryve LPCasei Th1, LPCasei Th2,L.Ferm IBF1, L.acidoph
Bromatech (IT) / Lautoselle
Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains
Bromatech (IT) / Acronelle
BIO-BOTANICAL RESEARCH / Megacidin
reserveage nutrition / beautiflora
amy meyers / primal earth probiotic
PrecisionBiotics / Zenflore
PharmExtracta / Bowell
Jetson / Gut Prep
UltraFlora® Balance
Bulk Probiotics / Bacillus Subtilis Probiotic
Maple Life Science™ / Bifidobacterium longum

Bromatech (IT) / Rotanella plus
Immune Defense Daily Chewable Probiotic
Bulk Probiotics / B. Longum Probiotic Powder
PharmExtracta (IT) / FG5 Forte In Sachets
natren / megadophilus
Metabolics / Bifidobacterium Longum Powder
VSL Pharmaceuticals / Oxadrop
Bromatech (IT) / Aflugenex
aor / probiotic-3
vitamin angels / just thrive
solgar / advanced multi-billion dophilus
Bromatech (IT) / Pilorex
bio-k+
microbiome labs / restorflora
Bromatech (IT) / Psicobrain
Nature's Lab Intensive GI
Schwabe Pharma Italia / MegaStress
bayer / trubiotics daily probiotic
Bromatech (IT) / Enterelle
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
organic 3 / primal soil
Align® Extra Strength
Floradapt Gut Comfort
SuperSmart / Bacillus Subtilis
Seeking Health / Probiota Bifidobacterium
INVIVO THERAPEUTICS / Bio.Me IB +
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
Jetson (US) / Immunity Probiotics
optibac / for your cholesterol
CustomProbiotics.com / L. Acidophilus Probiotic Powder
Purica Probiotic Intensive GI
align / align
Ombre / Ultimate Immunity

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.

Azadirachta indica {Neem}

Cinnamomum zeylanicum {Ceylon Cinnamon}

Diferuloylmethane {Curcumin}

Metha family {Mint}

Ocimum gratissimum {Clove basil}

Propolis {Bee glue}

rosmarinus officinalis {rosemary}

Sodium Chloride {Salt}

syzygium aromaticum {clove}

terpenophenolics {cannabinoids}

Thymus vulgaris {thyme}

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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Abdominal Aortic Aneurysm

Acne

Addison's Disease (hypocortisolism)

ADHD

Age-Related Macular Degeneration and Glaucoma

Allergic Rhinitis (Hay Fever)

Allergies

Allergy to milk products

Alopecia (Hair Loss)

Alzheimer's disease

Amyotrophic lateral sclerosis (ALS) Motor Neuron

Ankylosing spondylitis

Anorexia Nervosa

Antiphospholipid syndrome (APS)

Asthma

Atherosclerosis
Atrial fibrillation
Autism
Autoimmune Disease
Barrett esophagus cancer
benign prostatic hyperplasia
Biofilm
Bipolar Disorder
Brain Trauma
Breast Cancer
Cancer (General)
Carcinoma
cdkl5 deficiency disorder
Celiac Disease
Cerebral Palsy
Chronic Fatigue Syndrome
Chronic Kidney Disease
Chronic Lyme
Chronic Obstructive Pulmonary Disease (COPD)
Chronic Urticaria (Hives)
Coagulation / Micro clot triggering bacteria
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
Cushing's Syndrome (hypercortisolism)
cystic fibrosis
d-lactic acidosis (one form of brain fog)
deep vein thrombosis
Denture Wearers Oral Shifts
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
Food Allergy
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
Generalized anxiety disorder
giant cell arteritis
Glioblastoma
Gout
Graves' disease
Gulf War Syndrome
Halitosis
Hashimoto's thyroiditis
Heart Failure
hemorrhagic stroke
Hemorrhoidal disease, Hemorrhoids, Piles
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
Intelligence
Intracranial aneurysms
Irritable Bowel Syndrome
ischemic stroke
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
Lymphoma
Mast Cell Issues / mastitis
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)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
pancreatic cancer
Parkinson's Disease
Peanut Allergy
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
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

Systemic Lupus Erythematosus

Tic Disorder

Tourette syndrome

Type 1 Diabetes

Type 2 Diabetes

Ulcerative colitis

Unhealthy Ageing

Vitiligo