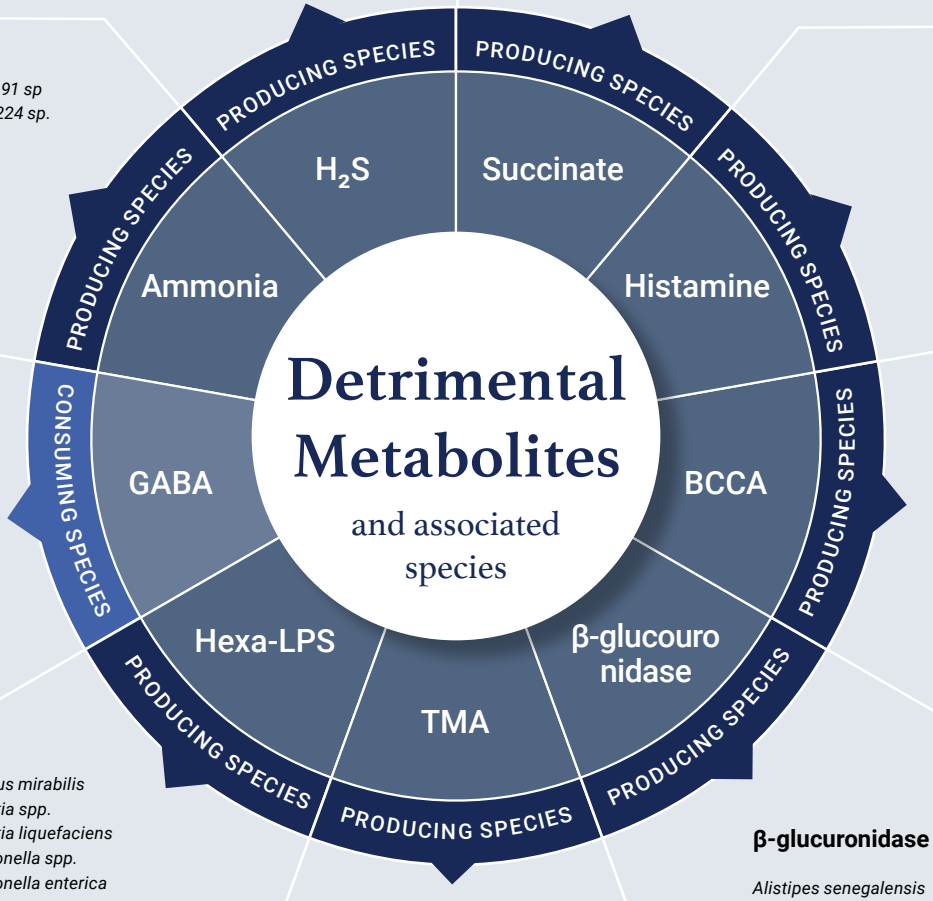
FUNCTIONS TO SPECIES GUIDE

microba.com/healthcare



H2S producing species

Acidaminococcus fermentans
Bilophila wadsworthia
Blautia producta
CAG-791
Citrobacter freundii
Citrobacter werkmanii
Clostridium citroniae
Clostridium perfringens
Desulfovibrio spp.
Desulfovibrio piger
Enterobacter cloacae
Escherichia coli
Flavonifractor plautii
Haemophilus parainfluenzae
Hafnia alvei
Hungatella hathewayi
Klebsiella pnuemoniae
Megasphaera elsdenii
Peptococcus niger
Peptostreptococcus anaerobius
Proteus mirabilis
Serratia liquefaciens

Succinate producing species

Akkermansia muciniphila
Alistipes onderdonkii
Alistipes putredinis
Alloprevotella rava
Barnesiella intestinihominis
Barnsiella viscericola
Bacteroides uniformis
Bacteroides vulgatus
Bifidobacterium adolescentis
Bifidobacterium spp.
Bilophila wadsworthia
CAG-1031
CAG-81
Corynebacterium spp.
Desulfovibrio fairfieldensis
Escherichia coli
Odoribacter splanchnicus
Parabacteroides distasonis
Paraprevotella clara
Prevotella copri
Prevotella spp.
UBA7173 sp

Ammonia producing species

Anaerococcus prevotii
Bifidobacterium longum
Bilophila wadsworthia
Blautia producta
Blautia wexlerae
CAG-485 spp.
Citrobacter freundii
Comamonas kerstersii
Desulfovibrio desulfuricans
Enterobacter cloacae
Escherichia fergusonii
Klebsiella pneumoniae
Kluyvera ascorbata
Proteus mirabilis
Pseudomonas putida
Roseburia intestinalis
Ruminococcus bicirculans
Serratia liquifaciens
Streptococcus salivarius
Streptococcus thermophilus
UBA1191 sp
UBA4224 sp.

Histamine producing species

Bacteroides fragilis
Bacteroides nordii
Bacteroides oleiciplenus
Bacteroides salyersiae
Bacteroides sp2
Bacteroides stercorirosoris
Clostridium baratii
Clostridium perfringens
Eggerthella lenta
Gordonibacter urolithinfaciens
Klebsiella aerogenes
Morganella morganii
Plesiomonas shigelloides
Raoultella ornithinolytica

GABA consuming species

Acinetobacter pittii
Anaerostipes hadrus
Anaerotignum lactifermentans
Bifidobacterium dentium
Brevibacterium ravenspurgense
Clostridioides difficile
Corynebacterium aurimucosum
Corynebacterium simulans
Desulfovibrio desulfuricans
Enterobacter cloacae
Escherichia coli
Escherichia sp2
Hafnia paralvei
Klebsiella pneumoniae
Klebsiella variicola
Megamonas funiformis
Megasphaera elsdenii
Mitsuokella jalaludinii
UBA1191 sp
UBA5416 sp

BCAA producing species

Agathobacter rectalis
Akkermansia muciniphila
Alistipes obesi
Alistipes onderdonkii
Anaerostipes caccae
Bacteroides uniformis
Bacteroides vulgatus
Bacteroides spp.
Bifidobacterium adolescentis
Bifidobacterium spp.
Bilophila wadsworthia
Blautia obeum
CAG-65 sp
CAG-81 sp
Corynebacterium spp.
Desulfovibrio spp.
Dorea longicatena
Eggerthella lenta
Escherichia coli
Parabacteroides distasonis
Prevotella copri
UBA4263 sp

Hexa-LPS producing species

Aeromonas spp.
Citrobacter spp.
Citrobacter freundii
Escherichia spp.
Escherichia coli
Enterobacter spp.
Enterobacter cloacae
Hafnia spp.
Hafnia paralvei
Klebsiella spp.
Klebsiella pneumoniae
Proteus spp.
Proteus mirabilis
Serratia spp.
Serratia liquefaciens
Salmonella spp.
Salmonella enterica
Vibrio spp.

β-glucuronidase producing species

Alistipes senegalensis
Alistipes shahii
Bacteroides uniformis
Bacteroides intestinalis
Bacteroides xylanisolvens
Bifidobacterium longum
Blautia producta
Clostridium clostridioformis
Coprobacter secundus
*Enorma massiliensis**
Escherichia coli
Faecalibacterium prausnitzii [A,C]
Fusicatenibacter saccharivorans
Hungatella hathewayi
Lachnospita eligens
Prevotella ruminicola
Roseburia hominis
Roseburia intestinalis
Subdoligranulum formicile
UBA11524 sp1

TMA producing species

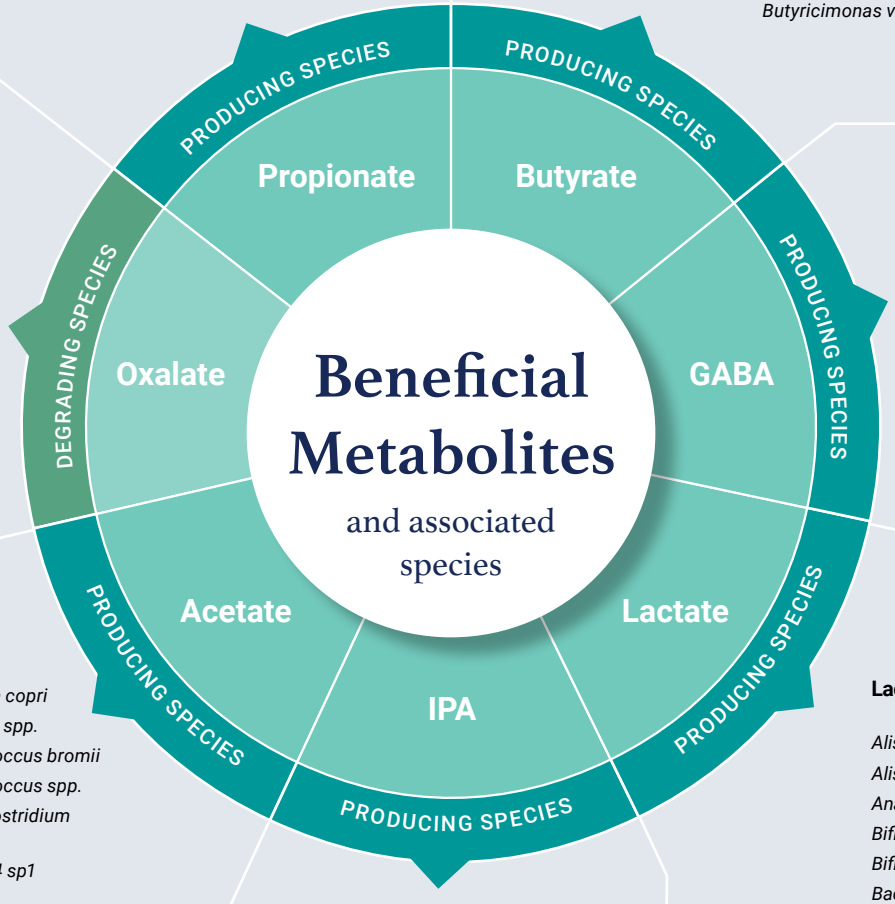
Anaerococcus hydrogenalis
Clostridium asparagiforme
Clostridium citroniae
Clostridium sporogenes
Citrobacter freundii
Collinsella tanakaei
Desulfovibrio desulfuricans
Enterobacter cloacae
Escherichia fergusonii
Desulfovibrio desulfuricans
Hungatella hathewayi
Klebsiella michiganensis
Klebsiella oxytoca
Klebsiella variicola
Kluyvera ascorbata
Peptococcus niger
Proteus mirabilis
UBA1191 sp
UBA7185 sp

MICROBA

The listed species are those most commonly observed by Microba in microbiome profiles. These lists are not exhaustive and rare unlisted species may also perform these functions (including novel organisms).

FUNCTIONS TO SPECIES GUIDE

microba.com/healthcare



Propionate producing species

Akkermansia muciniphila
Alistipes obesi
Alistipes putredinis
Bacteroides propionicifaciens
Bacteroides thetaiotamicron
Bacteroides uniformis
Bacteroides spp.
Blautia obeum
Coprococcus catus
Coprococcus eutactus
Coprobacter fastidiosus
Corynebacterium amycolatum
Dialister invisus
Eubacterium hallii
Megasphaera elsdenii
Phascolarctobacterium succinatutens
Roseburia inulinivorans
Veillonella parvula

Butyrate producing species

Agathobacter faecis
Agathobacter rectalis
Agathobacter spp.
Alistipes prausnitzii
Anaerococcus hydrogenalis
Anaerostipes caccae
Anaerostipes hadrus
Butyricicoccus sp 1
Butyricimonas synergistica
Butyricimonas virosa
Coprococcus catus
Coprococcus comes
Coprococcus eutactus
Eubacterium hallii
Faecalibacterium prausnitzii [C]
Intestinimonas butyriciproducens
Roseburia hominis
Roseburia intestinalis
Roseburia inulinivorans
Subdoligranulum variabile

Oxalate degrading species

Acidaminococcus intestini
Bacillus coagulans
Bacillus subtilis
Bacillus spp.
Bifidobacterium kashiwanohense
Bifidobacterium longum
CAG-485 sp
Citrobacter freundii
Clostridium citroniae
Enterobacter cloacae
Escherichia coli
Eubacterium ramulus
Flavonifractor plautii
Intestinimonas massiliensis
Klebsiella pneumoniae
Megasphaera elsdenii
Mitsuokella multacida
Oxalobacter formigenes
Streptococcus salivarius
Streptococcus thermophilus

GABA producing species

Alistipes finegoldii
Alistipes inops
Alistipes putredinis
Bacteroides caccae
Bacteroides dorei
Bacteroides fragilis
Bacteroides ovatus
Bacteroides uniformis
Bacteroides vulgatus
Bifidobacterium angulatum
Bifidobacterium dentium
Escherichia coli
Hafnia paralvei
Klebsiella pneumoniae
Odoribacter splanchnicus
Parabacteroides distasonis
Parabacteroides merdae
Parvimonas micra

Acetate producing species

Bifidobacterium spp.
Bacteroides spp.
Bacteroides uniformis
Barnesiella intestinihomonis
Blautia hansenii
Blautia obeum
Clostridium leptum
Coprococcus comes
Coprobacter fastidiosus
Coprobacter secundus
Fusicatenibacter saccharivorans
Parabacteroides johnsonii
Prevotella copri
Prevotella spp.
Ruminococcus bromii
Ruminococcus spp.
Ruminiclostridium siraeum
UBA11524 sp1

Lactate producing species

Alistipes obesi (D)
Alistipes onderdonkii (D)
Anaerostipes hadrus (L)
Bifidobacterium adolescentis (L)
Bifidobacterium spp. (L)
Bacteroides dorei (D)
Bacteroides intestinalis (D)
Bacteroides uniformis (D)
Blautia obeum (D, L)
Blautia wexlerae (D, L)
Butyrivibrio crossotus (D, L)
Clostridium leptum (L)
Collinsella aerofaciens (L)
Collinsella spp. (D, L)
Coprococcus comes (L)
Fusicatenibacter saccharivorans (D, L)
Holdemania massiliensis (L)
Lachnospira eligens (D, L)
Ruminococcus faecis (D, L)
Subdoligranulum variabile (D)

IPA producing species

Acidaminococcus intestini
Acidaminococcus fermentans
Clostridium sporogenes
Clostridium symbiosum
CAG-81 spp.
D16 spp.
ER4 spp.
Oscillibacter ruminantium
Peptoniphilus spp.

MICROBA

The listed species are those most commonly observed by Microba in microbiome profiles. These lists are not exhaustive and rare unlisted species may also perform these functions (including novel organisms).

FUNCTIONS TO SPECIES GUIDE

microba.com/healthcare

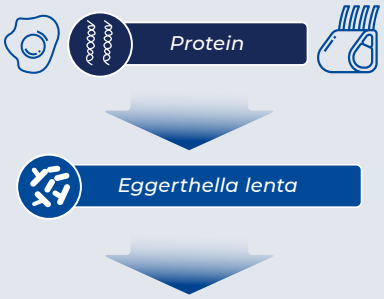
Mucin-degrading species

Akkermansia muciniphila
Bacteroides caccae
Bacteroides dorei
Bacteroides eggerthii
Bacteroides massiliensis
Bacteroides ovatus
Bacteroides plebeius
Bacteroides vulgatus
Bacteroides spp.
Barnesiella intestinihominis
Bifidobacterium bifidum
Bifidobacterium breve
Bifidobacterium longum
Clostridium perfringens
Collinsella aerofaciens
Collinsella intestinalis
Odoribacter splanchnicus
Parabacteroides distasonis
Parabacteroides merdae
Prevotella stercorea
Ruminococcus gnavus
Ruminococcus torques

Fibre-degrading species

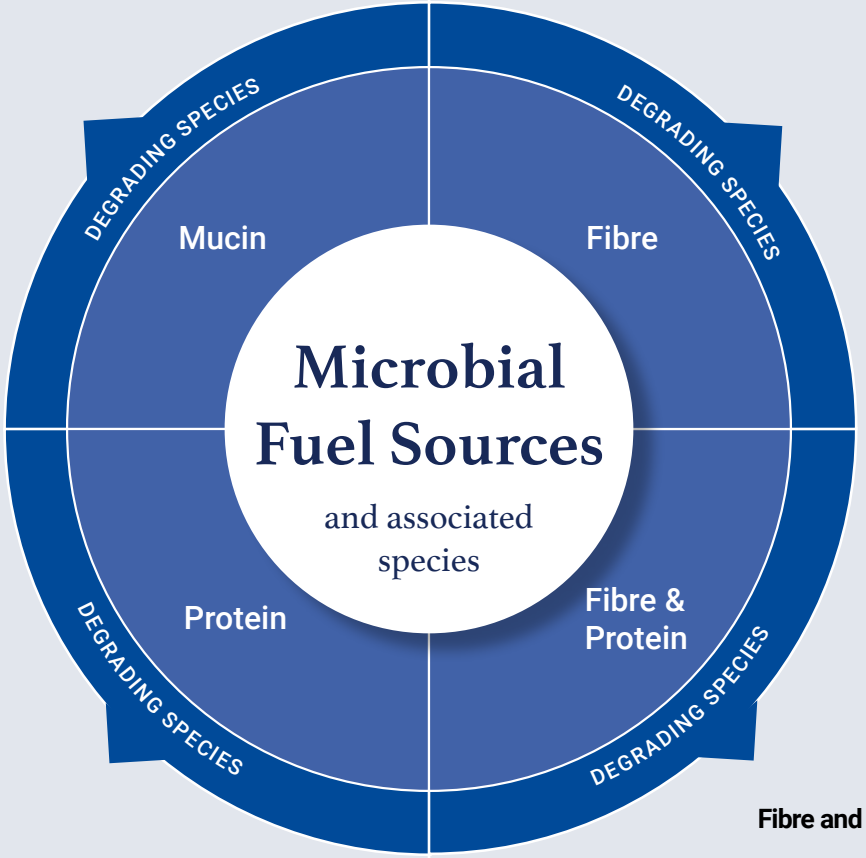
Agathobacter faecis
Agathobacter rectalis
Alistipes prausnitzii
Bifidobacterium spp.
Bacteroides cellulosilyticus
Bacteroides intestinalis
Coprococcus spp.
Faecalibacterium prausnitzii [C]
Fusicatenibacter saccharivorans
Roseburia hominis
Roseburia intestinalis
Roseburia inulinivorans
Ruminococcus bicirculans
Ruminococcus bromii
Ruminoclostridium siraeum
Subdoligranulum formicile
UBA11524 sp1

Protein / Mucin break down

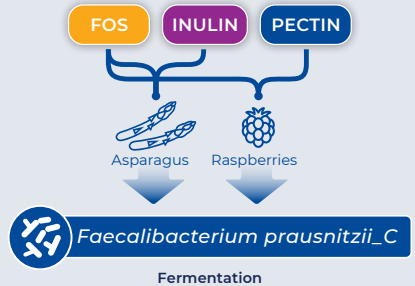


Variety of metabolites:
BCAAs, Trimethylamine, Hydrogen sulphide, Ammonia, Histamine, GABA

Associated with poor health



Fibre break down



Short Chain Fatty Acids

Associated with good health

Protein-degrading species

Alistipes finegoldii
Alistipes onderdonkii
Alistipes putredinis
Bacteroides caccae
Bacteroides dorei
Bacteroides eggerthii
Bacteroides massiliensis
Bacteroides vulgatus
Bilophila wadsworthia
Blautia wexlerae
Desulfovibrio spp.
Dorea formicigenerans
Eggerthella lenta
Enterococcus faecalis
Parabacteroides merdae
Parvimonas micra
Peptostreptococcus spp.
Ruminococcus gnavus
Ruminococcus torques
Sutterella wadsworthensis

Fibre and protein degrading species

Alistipes shahii
Alistipes senegalensis
Bacteroides cellulosilyticus
Bacteroides dorei
Bacteroides eggerthii
Bacteroides massiliensis
Bacteroides ovatus
Bacteroides stercoris
Bacteroides thetaiotaomicron
Bacteroides uniformis
Bacteroides vulgatus
Blautia obeum
Collinsella aerofaciens
Coprobacter fastidiosus
Coprococcus catus
Coprococcus comes
Dorea longicatena
Lachnospira eligens
Odoribacter splanchnicus
Parabacteroides distasonis
Paraprevotella clara
Prevotella copri

MICROBA

The listed species are those most commonly observed by Microba in microbiome profiles.
These lists are not exhaustive and rare unlisted species may also perform these functions (including novel organisms).