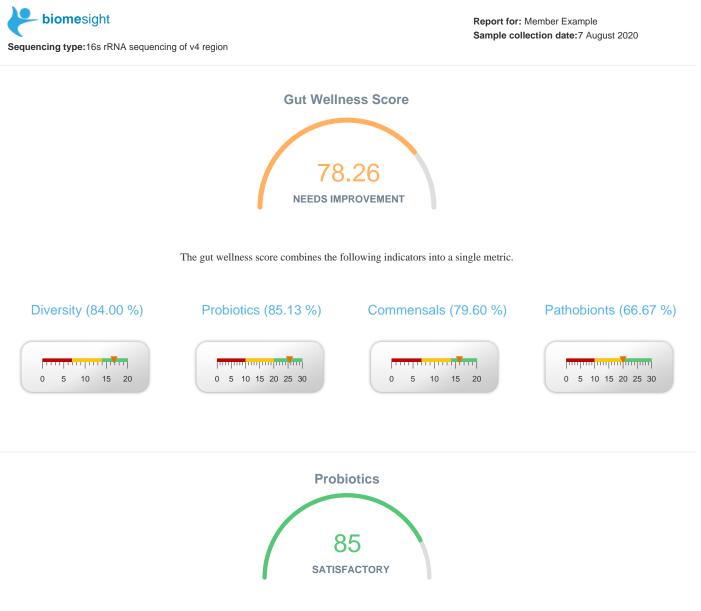
Biomesight Gut Microbiome Test



Probiotics are beneficial, protective bacteria. Probiotics are often called "good" bacteria. The beneficial impact of probiotics can be lost when present in concentrations exceeding the ideal range¹.

Probiotics - Akkermansia

Bacteria			Chart		Percent	Range	Interpretation	Score
Akkeri	nansia 0	2	4	6	0.133%	(0.02-2.1%)	Optimal	100.0%

Akkermansia is a genus in the phylum Verrucomicrobia, containing only 2 species of which one, namely A. muciniphila is the most well known and is considered an integral part of a balanced human gut flora. Akkermansia muciniphila is currently being studied for its effects on human metabolism.

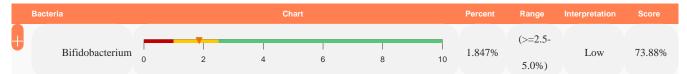
Recent studies have indicated that Akkermansia muciniphila in the intestinal tract may reduce obesity, type 2 diabetes, and inflammation. Elevated levels of Akkermansia muciniphila have been associated with multiple sclerosis and intestinal inflammation.

Muciniphila can degrade mucin and exert competitive inhibition on other pathogenic bacteria that degrade the mucin. These findings provide a rationale for A. muciniphila to become a promising probiotic and as such, several probiotic manufacturers are working on probiotic supplements and foods containing it.

Read more about it on our blog.

			63rd per	centile			
			Akkermansia o	distribution (%)			
All (%)	1.83	3.83	5.83	7.83	9.83	11.83	13.83
		Lower Q10 0.000% 0.00		verage Q3 (75%) U 706% 0.540% 1	pper 1.758%		

Probiotics - Bifidobacterium



Bifidobacterium is a genus of gram-positive bacteria. They are ubiquitous inhabitants of the gastrointestinal tract, vagina and mouth of mammals, including humans. Bifidobacteria are one of the major genera of bacteria that make up the gastrointestinal tract microbiota in mammals. Some bifidobacteria are used as probiotics.

Different species and/or strains of bifidobacteria may exert a range of beneficial health effects, including the regulation of intestinal microbial homeostasis, the inhibition of pathogens and harmful bacteria that colonize and/or infect the gut mucosa, the modulation of local and systemic immune responses, the repression of procarcinogenic enzymatic activities within the microbiota, the production of vitamins, and the bioconversion of a number of dietary compounds into bioactive molecules. Bifidobacteria improve the gut mucosal barrier and lower levels of lipopolysaccharide in the intestine.

Bifidobacteria may also improve abdominal pain in patients with irritable bowel syndrome (IBS) though studies to date have been inconclusive. Naturally occurring Bifidobacterium may discourage the growth of Gram-negative pathogens in infants. Read more about it on our blog.

F These foods and supplements are known to increase Bifidobacterium.

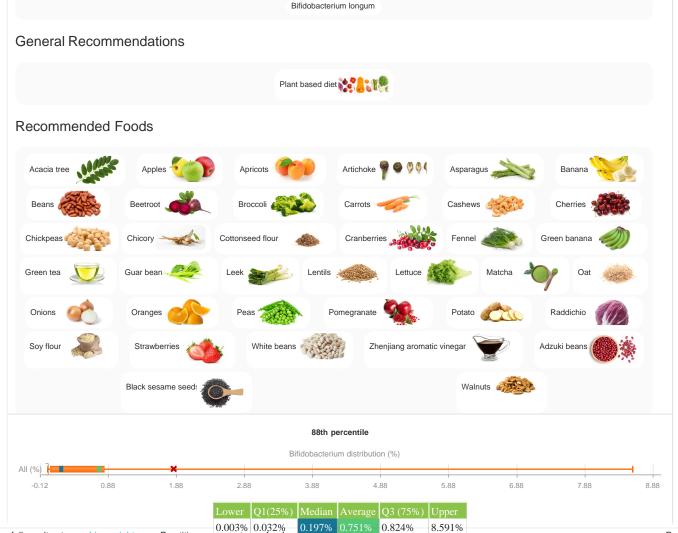
In Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact.

Prebiotics & Other Ingredients



Supplements with this icon should be used with caution and for a limited time only as it can decrease Probiotic and Commensal bacteria. Please consult your practitioner.

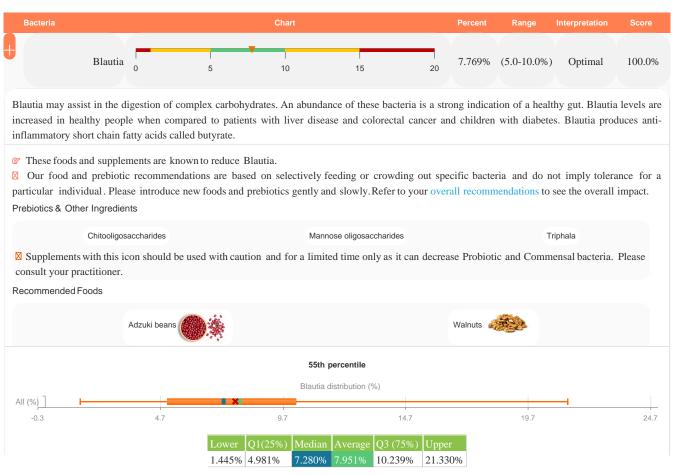
Probiotics



Access the full results at www.biomesight.com. Practitioner accounts are free!



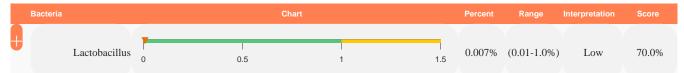






Bacteria				Chart			Percent	Range	Interpretation	Score
Faeca	libacterium		5	10	15	20	14.891%	(>=10.0- 15.0%)	Optimal	100.0%
	-	•	acteria. Its	sole known spe	cies, Faecalibacteriu	*	• •		s one of the mos	t abundan
Lower than us		prausnitzii i	n the intesti	ines have been a	costs the immune sy		C		or depressive dis	sorder, and
Lower than us	ual levels of F	prausnitzii i	n the intesti	ines have been a oriasis.	2		C		or depressive dis	sorder, and
Lower than us	ual levels of F	prausnitzii i	n the intesti	ines have been a oriasis.	associated with Croh	n's disease, o	C		or depressive dis	sorder, and
Lower than us higher than us	ual levels of F ual levels have	prausnitzii i been associa	n the intesti ted with ps	ines have been a oriasis. Faecal	associated with Crob 59th percentile	m's disease, o	besity, asthr	na and majo		
Lower than us higher than us	ual levels of F	prausnitzii i	n the intesti ted with ps	ines have been a oriasis. Faecal	associated with Crob	m's disease, o	besity, asthr	na and majo	or depressive dis	sorder, an

Probiotics - Lactobacillus



Lactobacillus is a genus of Gram-positive, non-spore-forming bacteria. They are a major part of the lactic acid bacteria group (i.e., they convert sugars to lactic acid). In humans, they constitute a significant component of the microbiota at a number of body sites, such as the digestive system, urinary system, and genital system.

Lactobacillus forms biofilms in the vaginal and gut microbiota, allowing them to persist during harsh environmental conditions and maintain ample populations. Lactobacillus exhibits a mutualistic relationship with the human body, as it protects the host against potential invasions by pathogens, and in turn, the host provides a source of nutrients.

Lactobacillus is the most common probiotic found in food such as yogurt, and it is diverse in its application to maintain human well-being, as it can help treat diarrhea, vaginal infections, and skin disorders such as eczema.

F These foods and supplements are known to increase Lactobacillus.

In Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact.

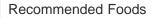
Prebiotics & Other Ingredients

Acacia fiber	Arabinogalactan	Beta-glucan	Calanus oil	Gum arabic	Konjac glucomannan	Lactose (not in lactose intolerant)	Lactulose	Omega-3
	Partially Hydrolyzed Gu	uar Gum		Raffinose		Stachyose	Turmeric	

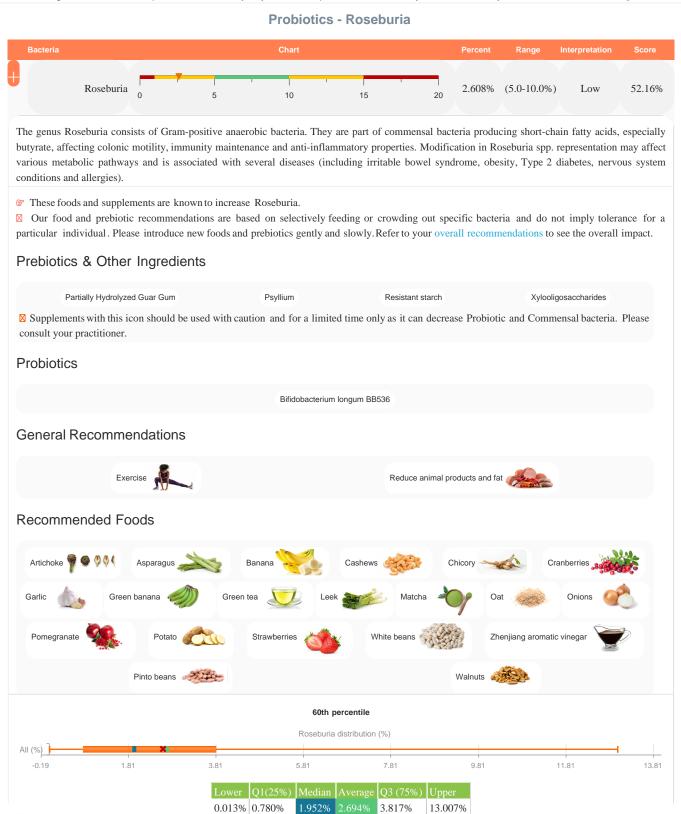
Supplements with this icon should be used with caution and for a limited time only as it can decrease Probiotic and Commensal bacteria. Please consult your practitioner.

Probiotics

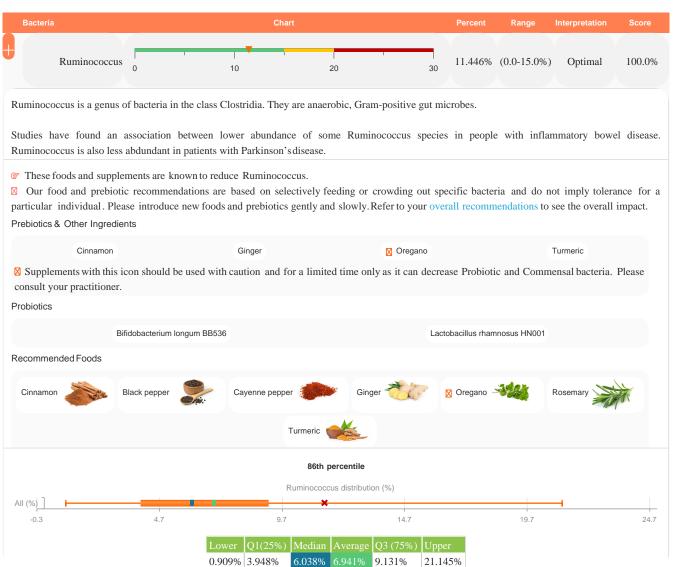
Lactobacillus acidophilus







Probiotics - Ruminococcus





While commensal bacteria is an integral part of a normal, balanced gut microbiome, a persistent overgrowth of these bacteria have been correlated with various disease states. A full score is awarded when the relative abundance of a measured commensal is within the recommended limits¹.

Commensals - Bacteroides

	Bacteria			Chart				Percent	Range	Interpretation	Score
Ĵ	Bacteroides	0	20	•	40	I	60	35.804%	(5.0-20.0%)	High	20.98%

Bacteroides species are normally mutualistic, making up the most substantial portion of the mammalian gastrointestinal microbiota, of which humans are no exception. They play a fundamental role in processing of complex molecules to simpler ones in the host intestine.

They can use simple sugars when available; however, the main sources of energy for Bacteroides species in the gut are complex host-derived and plant glycans. Studies indicate that long-term diet is strongly associated with the gut microbiome composition those who eat plenty of protein and animal fats have predominantly Bacteroides bacteria, while for those who consume more carbohydrates the Prevotella species dominate.

In general, Bacteroides are resistant to a wide variety of antibiotics, hence a bacteroides overgrowth is commonly seen in those who have had antibiotics administered more frequently.

Bacteroides are gram-negative and contain LPS (endotoxin) in their cell membrane, however, the amount of endotoxin is smaller than many other gram-negative bacteria, which limits their pathogenicity.

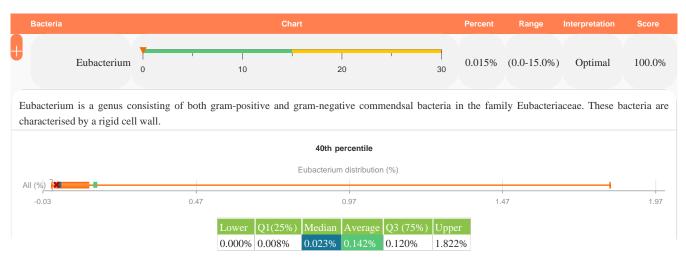
Read more about it on our blog.

These foods and supplements are known to reduce Bacteroides.

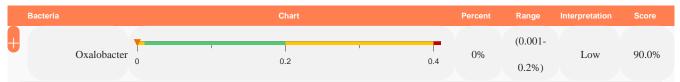
Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact. Prebiotics & Other Ingredients

	accharides	L	actulose	Pectin	Ye	east beta-glucan	
Supplements with this consult your practitioner		sed with caution	and for a limited	time only as it can dec	crease Probiotic and Co	mmensal bacteria.	Please
Probiotics							
			Bacillus coa	agulans			
General Recommendation	IS						
High fiber foods		Reduce	animal products and	fat	Reduce sulfur ad	ditives	
ecommended Foods							
Apples	Apricots	Artichoke	• • • • • •	Asparagus	Banana 😽	Beans	
Beetroot	Broccoli	Carrots	-	Cherries	Chickpeas	Chicory	4
Fennel	Garlic	Leek	Lentils	Lettuce	Onions	Oranges	
			Raddichio	(P)			
			81st per	centile			
			Bacteroides d	listribution (%)			
All (%)				*			

Commensals - Eubacterium



Commensals - Oxalobacter



Even though Oxalobacter is part of the Proteobacteria Phylum, it is a valuable inhabitant of a healthy gut due to its ability to degrade oxalate. O. Formigenes is the most well-known species of the Oxalobacter genus in the human gut but all species from this genus degrade oxalate. O. Formigenes is under investigation as a potential therapeutic agent to prevent kidney stones. Oxalobacter are particularly sensitive to antibiotic use, and therefore its prevalence is low. On our platform, around 39% of samples contain Oxalobacter.

Oxalobacter can potentially be increased by increasing the consumption of oxalate and the reduction of antibiotics, but neither of these are recommendations as appropriate antibiotic use are often essential. Oxalate is an antinutrient that needs to be metabolized and excreted. It would be a better strategy to increase other oxalate degraders like Bifidobacteria and Lactobacillus, if necessary. To find out more about oxalate and other oxalate degraders, please refer to the Oxalates category within the intolerance section.

Read more about it on our blog.

 $\ensuremath{\mathfrak{F}}$ These foods and supplements are known to increase Oxalobacter.

Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact.

Notes

Can potentially be increased by increasing the consumption of oxalate and the reduction of antibiotics, but neither of these are recommendations as appropriate antibiotic use are often essential. Oxalate is an antinutrient that needs to be metabolized and excreted. It would be a better strategy to increase other oxalate degraders like Bifidobacteria and Lactobacillus, if necessary.

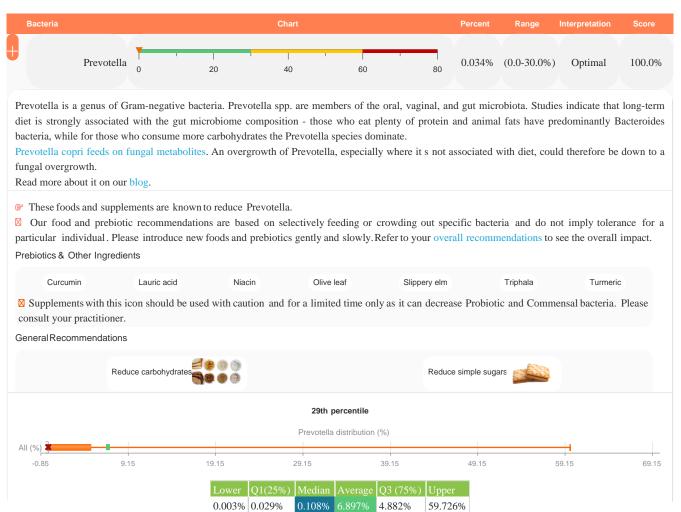
0.000% 0.010%

0.012%

0.108%

0.000% 0.000%

Commensals - Prevotella



Commensals - Streptococcus

	Bacteria					Chart							Percent	Range	Interpretation	Score
Ĵ	Streptococcus	0	' 1	1	2	3	1	4	I	5	I	6	0.101%	(0.0-2.5%)	Optimal	100.0%

Within the human gut ecosystem, the Streptococcus genus is generally considered a commensal bacterium. It consists of a wide variety of species, some with strains that are pathogenic, such as S. pyogenes, also known as Group A Streptococcus (GAS), and S. pneumoniae, which is known to produce toxins that can damage cell membranes, cause skin rashes, and even overactivate the immune system.

Depending on the species and/or strain, Streptococcus can produce lactic acid, acetate, histamine, serotonin, and dopamine. S. thermophilus is commonly found in yogurt, cheese and probiotic supplements.

Streptococcus is generally not regarded as a key player in modulating the overall microbial ecosystem.

60th percentile

		S	streptococcus distrib	ution (%)			
All (%)							
-0.03	0.47		0.97			1.47	1.97
					1		
		Lower Q1(25%)	Median Avera	ge Q3 (75%)	Upper		
		0.005% 0.032%	0.072% 0.1639	6 0.177%	1.885%		

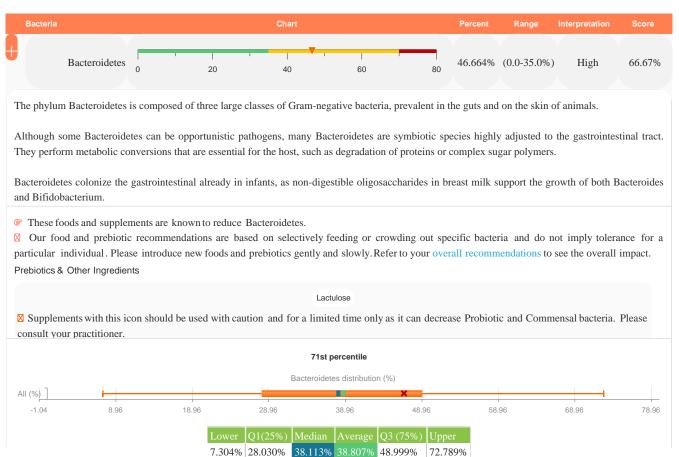
Commensals - Veillonella

	Bacteria							Chart						Percent	Range	Interpretation	Score
ļ	V	eillonella	0	1	,	2	I	3	I	4	5	I	6	0.289%	(0.1-2.0%)	Optimal	100.0%

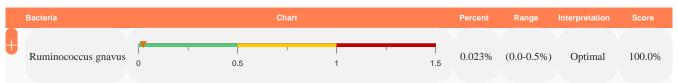
In a study on endurance athletes, researchers found that having more Veillonella in the gut is linked to better performance on a treadmill. What's intriguing is that they discovered that a substance called serum lactate, produced during exercise, can pass from the blood into the gut. They also found that when they put a similar substance called propionate into the rectum, it improved treadmill performance, much like what they observed when they introduced Veillonella bacteria into the gut. These findings suggest that Veillonella help improve athletic performance by converting exercise-produced lactate into propionate. This is a natural process encoded in our microbiome, and it enhances how well we can perform in sports. Veillonella atypica is currently being investigated as a probiotic to reduce fatigue.

72nd percentile Veillonella distribution (%) All (%) 1.78 0.18 0.38 0.58 1.18 1.58 0.78 0.98 1.38 -0.02 Lower Q1(25%) Median Average Q3 (75%) Upper 0.150% 0.239% 0.002% 0.056% 0.317% 1.602%





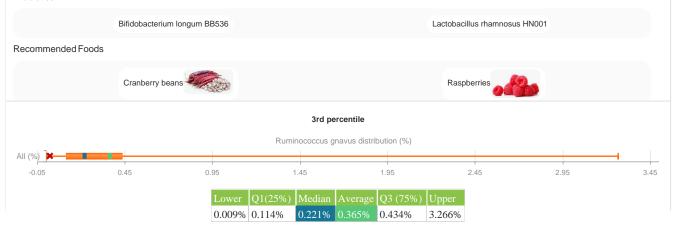
Commensals - Ruminococcus gnavus



Ruminococcus gnavus is part of the healthy human gut microbiota, however, it is disproportionately represented in many diseases, including long COVID, obesity, Type 2 diabetes as well as inflammatory gut conditions like Crohn s disease, IBD and ulcerative colitis. Diet can influence its presence, and it has been associated with pro-inflammatory diets. Note that R. Gnavus is technically no longer part of the Ruminococcus genus and is now part of genus Mediterraneibacter.

F These foods and supplements are known to reduce Ruminococcus gnavus.

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The pathobionts score is calculated based on the below subset of bacteria that can be identified on a Biomesight test. This is not an exhaustive list. A full score is awarded when the relative abundance of a measured pathobiont is below the levels₁ associated with adverse effects. It is not necessary or even desired to have all pathobionts levels at 0 as pathobionts also contribute to gut diversity & overall balance.

Dr Carly Polland, ND: Lipopolysaccharide (LPS)

Dr Carly Polland, ND: Special Topics: Methanogens

Blog: Managing Proteobacteria Overgrowth

Blog: Managing Die-Off Symptoms

Pathobionts - Desulfovibrio

	Bacteria		Chart			Percent	Range	Interpretation	Score
Ĵ	Desulfovibrio	0	0.25	0.5	0.75	0.039%	(0.0-0.25%)	Optimal	100.0%

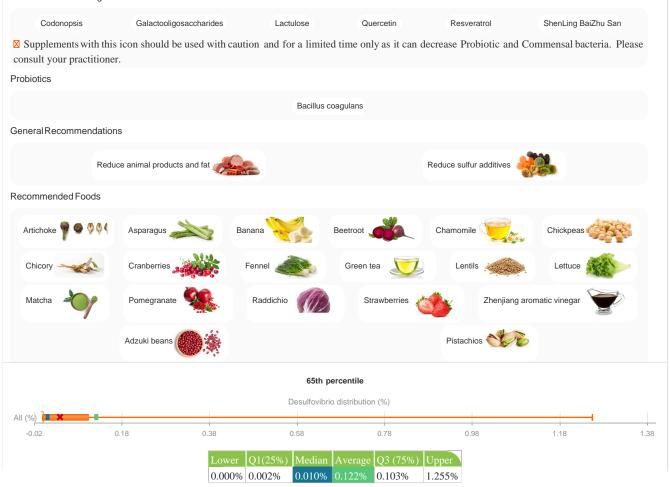
Desulfovibrio is a genus of Gram-negative sulfate-reducing bacteria. Most established species of Desulfovibrio are distributed in the environment, but some Desulfovibrio spp. reside in oral cavities and intestinal tracts of animals, including humans. This organism can produce hydrogen sulfide which can inhibit mitochondrial function directly. Mitochondria are the energy powerhouses of cells and runs a range of biological processes.

Although there are some benefits to hydrogen sulfide production in the gut like cardioprotection, hydrogen sulfide production also contributes to disease pathology. Production of hydrogen sulfide has been linked to irritable bowel disease (IBD) by damaging the gut epithelium's mucus layer and to colorectal cancer. In addition, during treatments with antibiotics, hydrogen sulfide can aide opportunistic bacteria growth leading to antibiotic resistance.

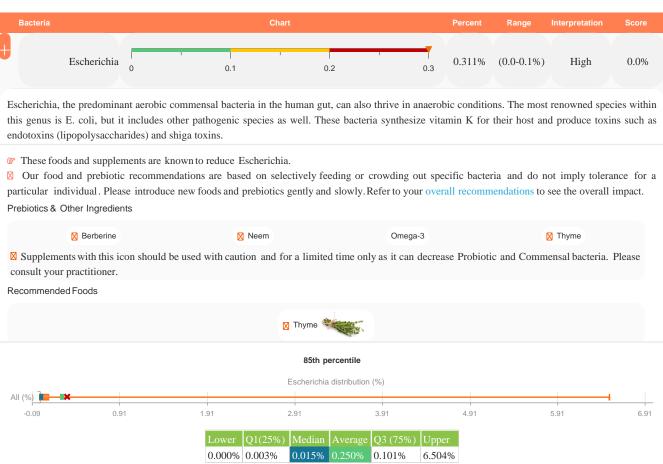
Read more about it on our blog.

These foods and supplements are known to reduce Desulfovibrio.

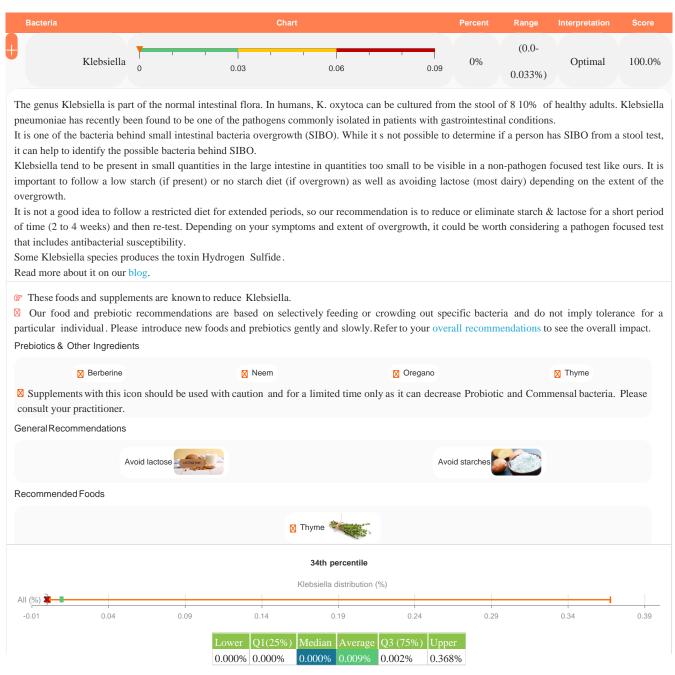
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Pathobionts - Escherichia



Pathobionts - Klebsiella



Pathobionts - Methanobrevibacter

	Bacteria		(Chart		Percent	Range	Interpretation	Score
Ĵ	Methanobrevibacter	0	0.01	0.02	0.03	0.008%	(0.0-0.01%)	Optimal	100.0%

Methanobrevibacter is a genus of the Methanobacteriaceae. The species within Methanobrevibacter are strictly anaerobic archaea that produce methane, for the most part through the reduction of carbon dioxide via hydrogen. Most species live in the intestines of larger organisms, and are responsible for the large quantities of greenhouse gases that they produce. Mbr. smithii, found in the human intestine, may play a role in obesity.

Methane has been associated with gastrointestinal disorders, mainly chronic constipation and constipation predominant irritable bowel syndrome as well as metabolic diseases like obesity.

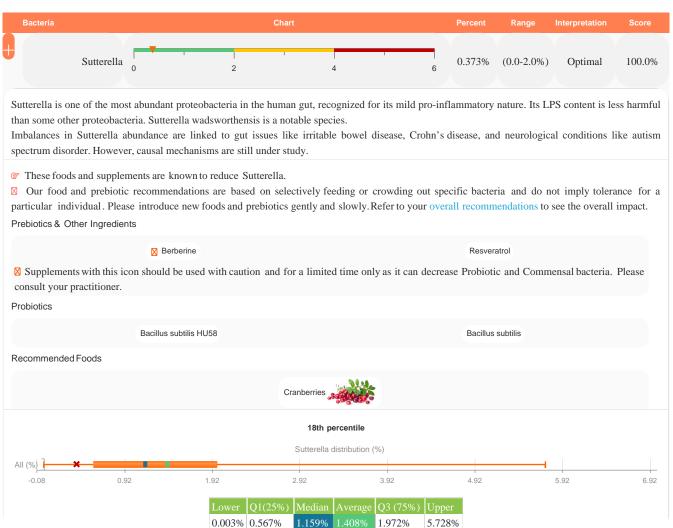
Read more about it on our blog.

These foods and supplements are known to reduce Methanobrevibacter.

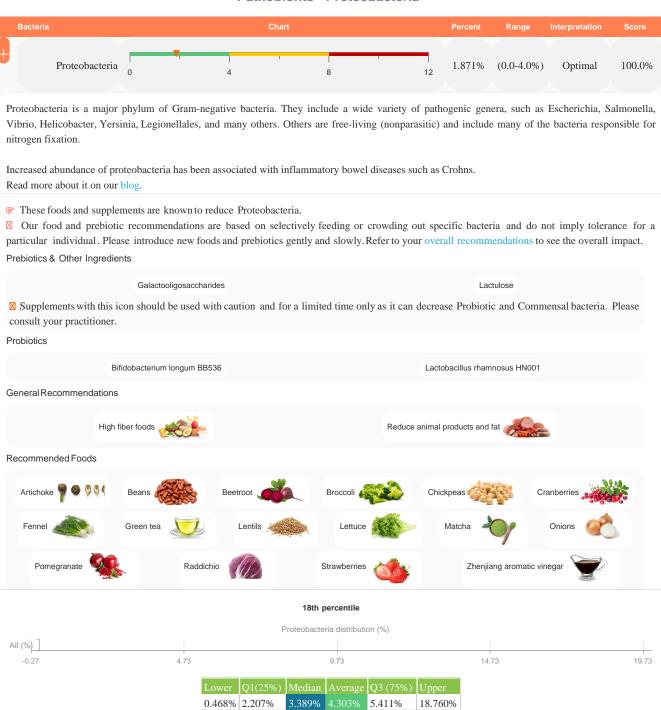
Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact. Prebiotics & Other Ingredients

Alicin Garic S Supplements with this icon should be used with caution and for a limited time only as it can decrease Probiotic and Commensal bacteria. Please consult your practitioner. Probiotics Recommended Foods Garlic Garlic Garlic S2nd percentile Methanobrevibacter distribution (%) All (%) 0 0,05 0,1 0,15 0,2 0,25 0,0							
consult your practitioner. Probiotics Lactobacillus rhamnosus HN001 Recommended Foods Carlic Car		Allicin			Garlic	•	
Lactobacillus rhamnosus HN001 Recommended Foods Gariic Cariic Carii Cariic Cariic Cariic Cariii Carii Cariii Cariii Carii			sed with caution and	for a limited time only as	it can decrease Probiotio	c and Commensal bacteria	a. Please
Recommended Foods Garlic S2nd percentile Methanobrevibacter distribution (%) All (%)	Probiotics						
Garlic S2nd percentile Methanobrevibacter distribution (%) All (%)			La	ctobacillus rhamnosus HN001			
82nd percentile Methanobrevibacter distribution (%) All (%)	Recommended Foo	ods					
All (%)				Garlic			
				82nd percentile			
	2		M	lethanobrevibacter distribution	(%)		
		0.05	0.4	0.45	0.0	0.05	
			Lower Q1(25%) Median Average Q3	(75%) Upper		
Lower Q1(25%) Median Average Q3 (75%) Upper			0.000% 0.000%	0.000% 0.011% 0.0	01% 0.262%		

Pathobionts - Sutterella

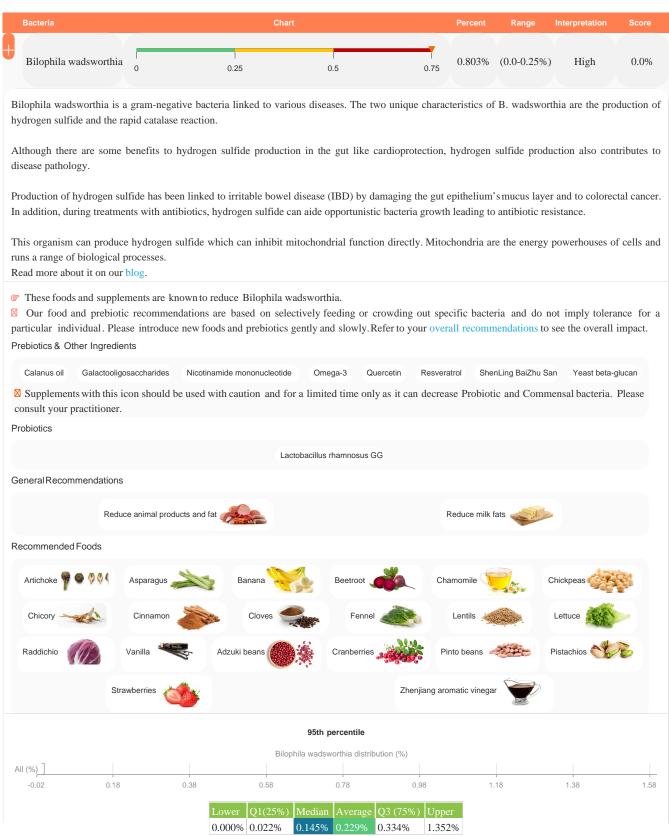




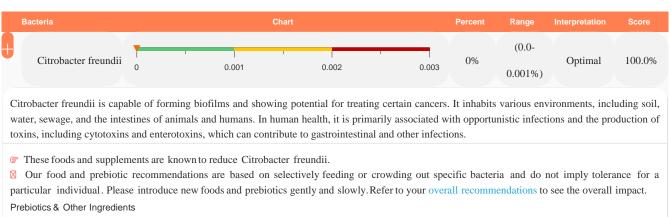


Access the full results at www.biomesight.com. Practitioner accounts are free!

Pathobionts - Bilophila wadsworthia







Cinnamon Garlic Supplements with this icon should be used with caution and for a limited time only as it can decrease Probiotic and Commensal bacteria. Please consult your practitioner. Recommended Foods Cinnamon Garlic 46th percentile Citrobacter freundii distribution (%) All (%) 0.002 0.004 0.006 0.008 0.01 0.012 0.014 0.016 0.018

0.000% 0.000%

0.000%

0.016%

0.000% 0.000%

Access the full results at	www.biomesight.com.	Practitioner accounts are free!

Pathobionts - Clostridium histolyticum

	Bacteria			Chart			Percent	Range	Interpretation	Score
Ĵ	Clostridium histolyticum	0	0.5	1	1	1.5	0.423%	(0.0-0.5%)	Optimal	100.0%

Clostridium histolyticum, also known as Hathewaya histolytica, is considered pathogenic in humans in relation to skin and soft tissue infections, however, as a gut inhabitant, research has not clearly uncovered its role yet. It produces collagenases which breaks down collagen. The collagenases produced is used in medications ranging from cellulite to wound healing as well as Dupuytren's contracture.

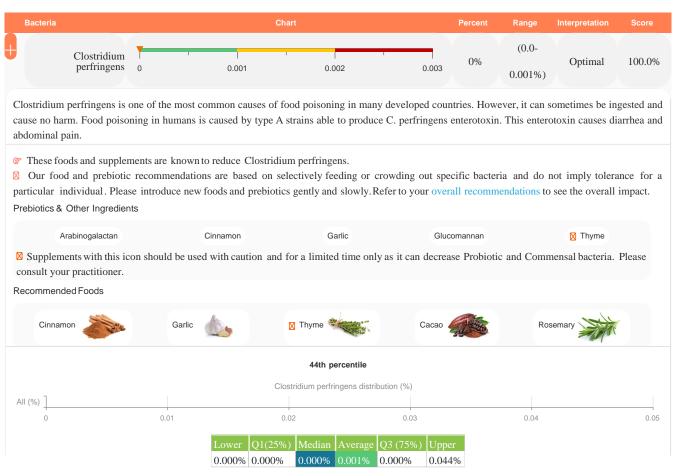
Hathewaya histolytica is capable of producing a number of toxins, including proteinases (enzymes that degrade protein), however this effect is strain dependent. It is one of the bacteria capable of causing gangrene. It is very commonly seen in samples on our platform.

F These foods and supplements are known to reduce Clostridium histolyticum.

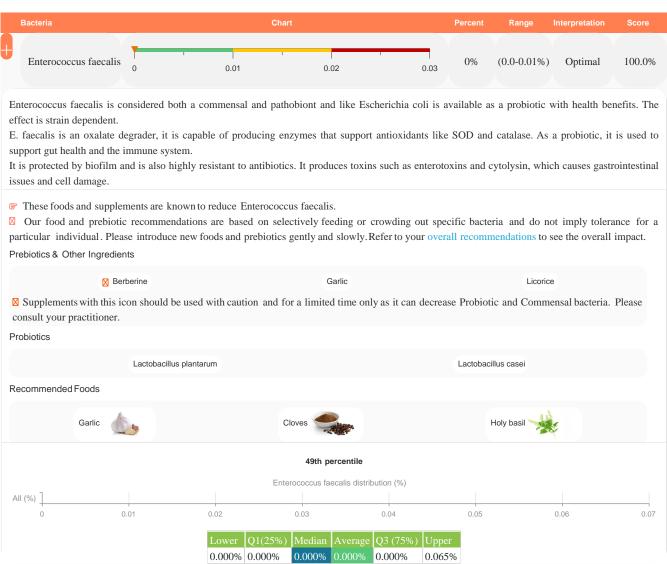
Our food and prebiotic recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and prebiotics gently and slowly. Refer to your overall recommendations to see the overall impact. Recommended Foods



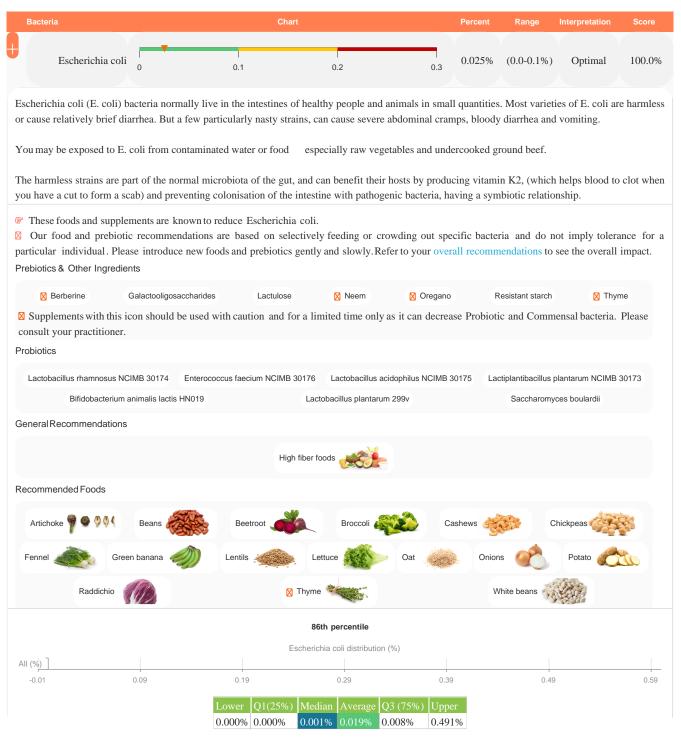
Pathobionts - Clostridium perfringens



Pathobionts - Enterococcus faecalis







Short Chain Fatty Acids^{beta}



SCFAs (Short Chain Fatty Acids) are beneficial anti-inflammatory end or intermediate metabolites produced by gut bacteria.

Dr Carly Polland, ND: Butyrate

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

It is important to note that this is not a measure of these metabolites found in the stool sample.



In general, acetate may modulate body weight control through different mechanisms that can affect central appetite regulation, gut-satiety hormones, and improvements in lipid metabolism and energy expenditure.



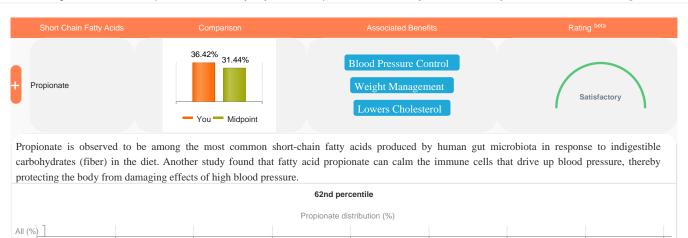


Butyrate is an essential short chain fatty acid, produced by colonic bacteria. The cells of the gut lining feed on butyrate and this makes butyrate essential for gut barrier maintenance. A shortage of butyrate has been implicated in diseases involving colonic inflammation such as ulcerative collitis. Due to the importance of butyrate as an inflammatory regulator and immune system contributor, butyrate depletions could be a key factor influencing the pathogenesis of many vasculitic conditions.

The anti-inflammatory capacity of butyrate has been extensively analyzed and supported by many studies. It has been found that microorganismproduced butyrate expedites the production of regulatory T cells. An increase in regulatory T cell numbers was observed upon a butyrate provision. More recently, it has been shown that butyrate plays an essential and direct role in modulating gene expression of cytotoxic T-cells. Although specific mechanism by which butyrate aids in the differentiation of T-cells is unclear, it has been determined that butyrate promotes the generation of regulatory T cells. This makes butyrate producing bacteria key for supporting the immune system.

Dr Jason Hawrelak's recommendation is for butyrate producers to constitute at least 40% of the microbiome. Butyrate producers in excess of 40% is likely to have a systemic anti-inflammatory effect.





69.01

79.01

9.01	19.01	29.01		39.01	49.0	01	5
	Low	ver Q1(25%)	Median	Average	Q3 (75%)	Upper	
	6.03	36% 21.893%	31.357%	32.951%	42.452%	69.594%	

-0.99

Neurotransmitters beta



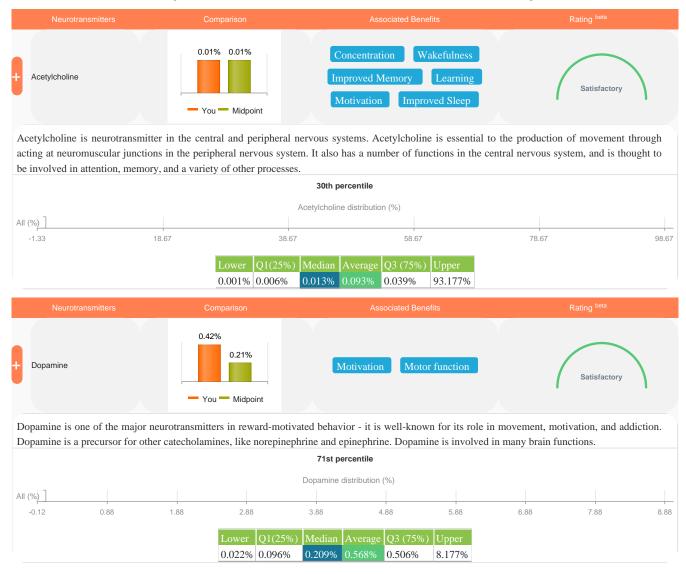
The gut microbiota communicate with the brain through several different mechanisms. This includes production of neurotransmitters or modulation of host neurotransmitter catabolism, innervation via the vagus nerve, or activation of the HPA axis. These microbial molecules do not act directly on the brain, which is isolated and protected by a membrane called the blood-brain barrier. It appears that neurotransmitters produced by gut bacteria act on the cells lining the gastrointestinal wall in order to have them transmit their message to the central nervous system through the neurons of the gastrointestinal tract that are connected to the brain.

Dr Carly Polland, ND: Special Topics: Histamine

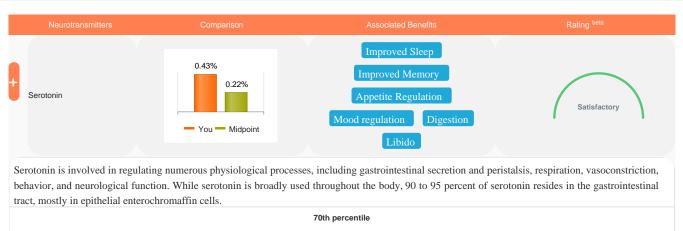
Blog: Exploring Gut Bacterial Metabolites

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

It is important to note that this is not a measure of these metabolites found in the stool sample.







				Serotonin d	distribution (%)				
All (%)									
-0.12	0.88	1.88	2.88	3.88	4.88	5.88	6.88	7.88	8.88
			Louise O1	1(250() Median	Average Q3 (75)				
			Lower Q1	I(25%) Median	Average Q5 (75	%) Opper			
			0.024% 0.1	100% 0.218%	0.589% 0.535%	8.456%			

Detoxification beta



Gut bacteria affect the body's detoxification pathways through the production of enzymes causing toxins bound in the liver to be freed up and reabsorbed in the colon.

Dr Carly Polland, ND: Special Topics

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

It is important to note that this is not a measure of these metabolites found in the stool sample.

Detoxification	Comparison	Associated Symptoms	Rating ^{beta}
+ Beta-glucuronidase	0.25% 0.05%	Estrogen Dominance Fatigue Inflammation	Satisfactory

The liver excretes toxins by attaching them to glucuronic acid and sending this complex into the small intestine to eventually be excreted from the body. Beta-glucuronidase is an enzyme produced by intestinal bacteria that can break the bond between toxins and glucuronic acid. This enzyme needs to be present just the right amount - not too little and not too much. When beta-glucuronidase is in excess, the bonds between toxins and glucuronic acid are broken, and toxins and hormones that were meant to be excreted are then reabsorbed into the body.

				5th percentile				
			Beta glu	ucuronidase distributi	on (%)			
All (%)								
-0.05	0.45	0.95	1.45	1.95	2.45	2.95	3.45	3.95
		Lo	wer Q1(25%) M	edian Average (73 (75%) Unper			
				254% 0.415% (ľ.			

Toxins^{beta}



Pathogenic gut bacteria produce small amounts of end or intermediate substances with various degrees of toxicity to humans.

Dr Carly Polland, ND: Special Topics: Methanogens

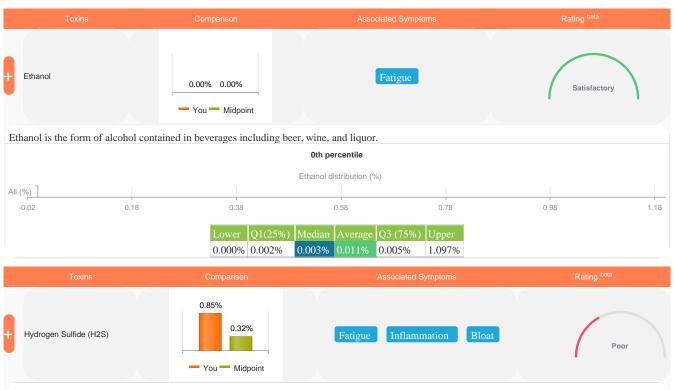
Blog: Managing Proteobacteria Overgrowth

Blog: Managing Die-Off Symptoms

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

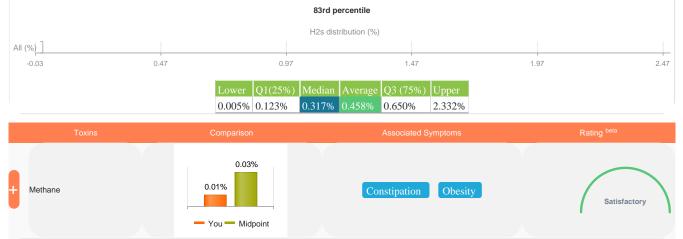
It is important to note that this is not a measure of these metabolites found in the stool sample.

		Comparison	Associated Symptoms		Rating beta
t	Colibactin	0.03% 0.01% — You — Midpoint	Ageing	(Satisfactory
	optosis of immune cells.	gut bacteria that induce chro	omosomal instability and DNA damage	e, which leads to senescence	of epithelial cells and
			70th percentile		
			Colibactin distribution (%)		
All (%)				
	-0.17 1.83	3.83	5.83 7.83	9.83	11.83 13.83
		Lower Q1(25 0.000% 0.003		per 910%	
		Comparison	Associated Symptoms		
+ D-1	D-Lactate	0.06% 0.03% - You - Midpoint esiding in the colon when	Fatigue Brain For		Satisfactory When not metabolized
The col hav Ele	e D-Lactate percentage we disp on. Even if we calculate that yo ve undigested carbohydrates read	lay here represents an appr u have a high level of D-la ching your colon.	m the body through renal excretion. roximation of the amount of D-lactate actate producing bacteria, that does not actic acidosis is typically only observed	mean you produce elevated	l D-lactate, unless you
5110	ne oower syndrome.		41st percentile		
All (%)]		D lactate distribution (%)		
	-0.68 9.3	2 1	9.32 29.32	39.32	49.32
		LowerQ1(250.001%0.009%		per 511%	



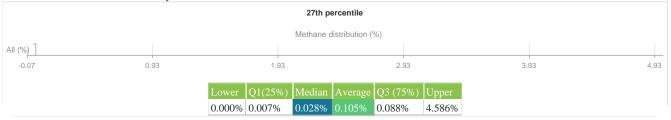
Sulfate-reducing bacteria are the main producers of hydrogen sulfide in the gut. High concentrations of hydrogen sulfide are involved in gut inflammation. Lactic acid bacteria can be sensitive to hydrogen sulfide. Although there are some benefits to hydrogen sulfide production in the gut like cardioprotection, hydrogen sulfide production also contributes to disease pathology. Production of hydrogen sulfide has been linked to irritable bowel disease (IBD) by damaging the gut epithelium's mucus layer and to colorectal cancer. In addition, during treatments with antibiotics, hydrogen sulfide can aide opportunistic bacteria growth leading to antibiotic resistance.

Hydrogen sulfide can inhibit mitochondrial function directly. Mitochondria are the energy powerhouses of cells and runs a range of biological processes.



Methane gas is produced by intestinal methanogens that metabolize hydrogen gas, a product itself of bacterial fermentation of sugar substrates. Currently the main producers are thought to be single celled organisms belonging to the Kingdom Archaea including Methanobrevibacter smithii and Methanospaera stadmagnae and to a lesser extent some of the bacteria species of the clostridium and bacteroides type.

Methane has been associated with gastrointestinal disorders, mainly chronic constipation and constipation predominant irritable bowel syndrome as well as metabolic diseases like obesity.



Nutrients beta



Our gut bacteria produces many nutrients, many of which are plentiful in our diets. This section focuses on nutrients that are beneficial (or even essential), but are uniquely produced by our gut bacteria. These nutrients are not present in foods (unless fermented or added) and cannot be synthesized by the human body itself.

Blog: Exploring Gut Bacterial Metabolites

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Equol is an isoflavonoid estrogen (phytoestrogen) metabolized from daidzein, a type of isoflavone found in soybeans and other plant sources, by bacterial flora in the intestines. Equol is a nonsteroidal estrogen. Not all humans can produce (S)-equol after soy consumption. The ability to do so depends on having certain strains of bacteria living within the intestine. Note that equol will only be produced if soy products are consumed.





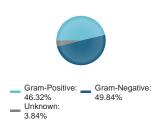
Vitamin K2 (Menaquinone) is one of three types of vitamin K, the other two being vitamin K1 (phylloquinone) and K3 (menadione). K2 is both a tissue and bacterial product (derived from vitamin K1 in both cases) and is usually found in animal products or fermented foods.

Long-chain menaquinones (longer than MK-4) include MK-7, MK-8 and MK-9 and are more predominant in fermented foods such as natto. Longerchain menaquinones (MK-10 to MK-13) are produced by anaerobic bacteria in the colon, but they are not well absorbed at this level and have little physiological impact. MK4 are synthesized in humans from Vitamin K1 which are common in foods. This section is focused on MK7 from bacterial origin.

Vitamin K2 plays a central role in the metabolism of calcium the main mineral found in your bones and teeth. Vitamin K2 activates the calciumbinding actions of two proteins matrix GLA protein and osteocalcin, which help to build and maintain bones

		5th percen	tile		
		Vitamin k2_mk7 di	stribution (%)		
All (%)					
-0.36	4.64 9.6	14.64	19.64	24.64	29.64
	Lower	Q1(25%) Median Ave	rage Q3 (75%) Upper		
		5 1.424% 3.895% 5.79			





Relative abundance by bacterial stain

Gut microbiome tests like ours cannot measure the degree of intestinal permeability. Instead, this section contains markers of bacterial byproducts that influence the extent to which you would be impacted by a compromised barrier, if it is compromised.

Dr Carly Polland, ND: Lipopolysaccharide (LPS)

Blog: Managing Proteobacteria Overgrowth

Blog: The role of LPS in Long-COVID

Blog: Managing Die-Off Symptoms

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.



Food Intolerances^{beta}



While many intolerances are predetermined genetically (e.g. through lack of enzyme production), some are also impacted by our gut microbiota. Many gut bacteria produce enzymes relevant to degrading substrates ingested both through diet as well as those produced as byproducts of metabolizing other substrates. Intolerance should not be confused with allergies. Intolerances are milder reactions based on lack of enzymes and not an immune reaction. For both lactose & oxalate degraders, close to or higher than the median is desired.

Blog: Exploring Gut Bacterial Metabolites

Blog: Deep dive into oxalates

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

1 05% 0.33% Lactose Satisfactory You — Midpoint Lactose digestion is determined by the ability to produce the lactase enzyme. While all human babies produce lactase, many adults produce very little. Lactose intolerance (via endogenous lactase enzyme production) can be determined through a genetic test. A further factor influencing lactose intolerance is the presence/absence of lactose degrading bacteria in the small intestine and to a lesser degree in the colon. 80th percentile Lactose distribution (%) All (%) -0.1 0.9 1.9 2.9 49 59 6.9 3.9 0.026% 0.137% 0.327% 0.718% 0.821% 6.658% 1.85% Oxalates 0.27% Satisfactory You Midpoint Leafy greens and other popular plant foods contain an antinutrient called oxalate. Gut bacteria contribute to oxalate metabolism through the production of enzymes that degrade oxalate. Oxalates are not just ingested through the dietary intake but are also synthesized by the body. Most oxalates are produced by the body through the breakdown of Dehydroascorbic acid (DHA), an oxidized form of ascorbic acid (vitamin C). One of the main health concerns around oxalates is that it can bind to minerals in the gut and prevent the body from absorbing them. It also increases the risk of developing kidney stones as it is excreted through urine and stool. 87th percentile Oxalates distribution (%) All (%) 1.87 -0.13 3.87 5.87 7.87 9.87 0.010% 0.081% 0.276% 0.825% 0.912% 9.003%

It is important to note that this is not a measure of these metabolites found in the stool sample.

Longevity beta



Our gut microbiota are capable of producing enzymes implicated in longevity which we cannot produce ourselves. These enzymes are responsible for processing substrates from food into beneficial metabolites. They increase longevity by decreasing the slow damage associated with aging via their antioxidative properties. Additionally, these metabolites have been found to combat the three leading causes of death in both the USA and UK: cancer, heart disease, and neurological diseases such as dementia and Alzheimer's disease. Myrosinase producers close to or higher than the median is desired.

Important : Your rating is not a predictor of your longevity! It is simply feedback on an aspect of longevity that your gut microbiota contribute to.

Diver Luk, BSc: Myrosinase

Research Summary: Myrosinase

We show how the relative abundances of the bacteria in your sample compares to the median levels (midpoint) of those within our sample set.

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	Comparison	Associated Benefits	
Myrosinase	5.46% 4.54% - You - Midpoint	Anti-carcinogenic Anti-ageing	Satisfactory
Inherently, humans, cannot, pro	duce the enzyme myrosinase so i	nstead, we rely on our gut microbiota to produ	ce it. This enzyme is responsible for
J 1	<i>v v</i>	roducts. These glucosinolate compounds are ty	¢ 1
		as broccoli, Brussels sprouts, cabbage, and cap	
÷ .	e	thiocyanate product sulforaphane .	ers. The primary focus of research off
1 0	0 1	table s own myrosinase after being cooked, s	ince the heat partially inactivates or
e	, , ,	cosinolates are still metabolised to isothiocyanate	1 \$
	the gut of humans are myrosinase-		in numans. This is explained by the
Sut interoriora because wranning	the gut of numuus are myrosinase		
Sulforaphane is a powerful org	anic sulfur-containing phytochemi	ical that has been found to be associated with a y	vide range of health benefits, such as:
1 1 0	01 5	ical that has been found to be associated with a vertice of carcinogens, protecting against other	0
protecting against cancer by in	nducing the detoxification and exe	cretion of carcinogens, protecting against other	0
protecting against cancer by in CoV-2, and reducing blood sug	nducing the detoxification and exe gar levels associated with type 2 dia	cretion of carcinogens, protecting against other- abetes.	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p	nducing the detoxification and exo gar levels associated with type 2 di- properties also extend to the reduct	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p	nducing the detoxification and exe gar levels associated with type 2 dia	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p	nducing the detoxification and exo gar levels associated with type 2 di- properties also extend to the reduct	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc s, and increased blood pressure. 56th percentile	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p damage caused by UV radiatio	nducing the detoxification and exo gar levels associated with type 2 di- properties also extend to the reduct	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc s, and increased blood pressure.	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p damage caused by UV radiatio	nducing the detoxification and exo gar levels associated with type 2 dia properties also extend to the reduct n, build-up of plaque in the arteries	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc s, and increased blood pressure. 56th percentile Myrosinase distribution (%)	wise lethal pathogens such as SARS- esses such as neurodegeneration, skin
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p damage caused by UV radiatio	nducing the detoxification and exo gar levels associated with type 2 dia properties also extend to the reduct n, build-up of plaque in the arteries	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc s, and increased blood pressure. 56th percentile	wise lethal pathogens such as SARS-
protecting against cancer by in CoV-2, and reducing blood sug Naturally, these antioxidative p damage caused by UV radiatio	nducing the detoxification and exo gar levels associated with type 2 dia properties also extend to the reduct n, build-up of plaque in the arteries	cretion of carcinogens, protecting against other abetes. ion of other age-associated oxidative stress proc s, and increased blood pressure. 56th percentile Myrosinase distribution (%) 14.62 19.62	wise lethal pathogens such as SARS- esses such as neurodegeneration, skin

Overall Recommendations

These recommendations are personalized using your completed health profile and selected microbiome sample.

Our food and supplements recommendations are based on selectively feeding or crowding out specific bacteria and do not imply tolerance for a particular individual. Please introduce new foods and supplements gently and slowly

	DD OR CONTI	NUE								
🕼 Green (enjoy)			umber of bact	eria it is expect	ted to improve					
 Green (enjoy) Try to consum 				enta neno empere	ieu to improve					
									zhanijang	
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1					and the second sec		**************************************			123
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			NA.							
							446			
broccoli	carrots	cherries	garlic	oranges	acacia tree	cottonseed flour	soy flour	walnuts	pistachios	pinto bea
2	2					2	2	2		
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FOOD TO RE					_					
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