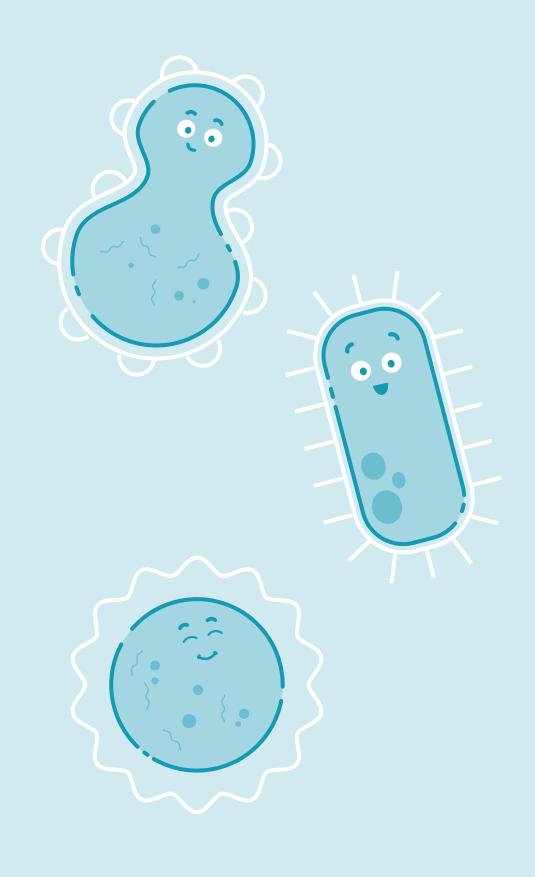
	Essential Gut Health Test	Advanced Gut Health Test
Stool properties		
Colour	✓	<u></u>
Consistency		
рН	✓	
Biodiversity		
Diversity	\	✓
Dysbiosis index	✓	/
Bacterial distribution		
Actinobacteria	V	✓
Bacteroidetes	V	✓
Firmicutes	\	
Fusobacteria		V
Proteobacteria	\	V
Verrucomicrobia	<u></u>	
Other	V	
Firmicutes/ Bacteroidetes Ratio		
Enterotype		
1, 2 or 3		V
Actinobacteria		
Bifidobacteria		\
Equol-producing bacteria	<u> </u>	
Adlercreutzia species		\(\)
Eggerthella lenta		<u></u>
Slackia species		
Bacteroidetes		
Bacteroides		<u></u>
Prevotella		
Prevotella copri	V	
Firmicutes		
Butyrate-producing bacteria	<u> </u>	✓
Faecalibacterium prausnitzii Eubacterium rectale		
Eubacterium hallii	V	<u></u>
Roseburia species		
Ruminococcus species Coprococcus		
Butyrivibrio species	V	v /
Cl. butyricum		/
Total bacterial count Clostridia		
Clostridia total bacterial	<u> </u>	<u> </u>
count Clostridia cluster 1		
Clostridia histolytium		
Clostridium perfringens Clostridium sporenges		
Other		
Christensenellaceae		<u> </u>
Dialister invisus		
Fusobacteria		
Fusobacterium species		
Verrucomicrobia Akkermansia muciniphila		
·	<u> </u>	<u> </u>



~~~		
5.5 . 4	Essential Gut	Advanced Gut
	Health Test	Health Test
Proteobacteria		
Potentially pathogenic bacteria	<b>✓</b>	<b>✓</b>
Haemophilus	<b>\</b>	<b>\( \)</b>
Acinetobacter		
Escherichia coli biovare  Proteus species		<u> </u>
Proteus mirabilis	Y	·
Klebsiella species  Klebsiella pneumoniae		
Enterobacter species		<u> </u>
Serratia species		
Hafnia species  Morganella species		
Campylobacter species	•	<u> </u>
Providencia species		
Citrobacter species  Pseudomonas species		
Histamine-producing bacteria		·
H2S production	<b>\</b>	<b>✓</b>
Sulphate-reducing bacteria  Desulfovibrio piger		
Desulfovibrio piger  Desulfomonas pigra		<u> </u>
Bilophila wadsworthii		<b></b>
Oxalate-degrading bacteria		
Oxalobacter formigenes		
Archaea		
Methanobrevibacter		$\checkmark$
Immunogenically effective bacteria		
Escherichia coli	<b>\</b>	<b>✓</b>
Enterococcus species		
Lactobacillus species		<u> </u>
Mucin production/		
mucosal barrier		
Akkermansia muciniphila		
Faecalibacterium prausnitzii		
Yeasts/moulds		
Candida albicans		
Candida species	<b>V</b>	<b>V</b>
Geotrichum candidum	<b>Y</b>	<u> </u>
Moulds		<u></u>
Daracitas		
Parasites		
Pathobionts  Blastocystis hominis		
Blastocystis hominis  Dientamoeba fragilis		
Helicobacter AG	<b>V</b>	<b>✓</b>
Pathogenic intestinal protozoa		· · · · · · · · · · · · · · · · · · ·
Giardia lamblia		•
Entamoeba histolytica	<b>\</b>	<b>✓</b>
Cryptosporidium species		$\checkmark$
Cyclospora cayetanensis	<b>\</b>	<b>✓</b>
Helminths Ultimate Gut Health Test		<b>V</b>
Taenia species		
Taenia solium Taenia saginata		<b>✓</b>
Ascaris species		
Enterobius vermicularis		<b>V</b>
Ancylostoma species		<b>/</b>
Ancylostoma duodenale  Hymenolepsis species		<u> </u>
Hymenolepsis nana		<b>√</b>
Hymenolepsis diminuta		<b>V</b>
Trichuris trichiura		<b>\( \)</b>
Necator americanus  Strongyloides species		
Strongyloides stercoralis		<b>✓</b>
Microsporidia		$\checkmark$
Enterocytozoon species		<u> </u>
Encephalitozoon species		<b>V</b>
Functional markers		
Calprotectin		

Haemoglobin in faeces immunologically

Secretory IgA

Zonulin

Pancreatic elastase





Biovis Diagnostik MVZ GmbH

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Tel.: 0 64 31 / 21 248 - 0 Fax: 0 64 31 / 21 248 - 66 E-mail: info@biovis.de Web: www.biovis.de

	Date Sex	of Birth		Order ID Order Date	
ampling Date cample Material	I	tion Date tion on		Findings Status Findings Date	
Test	Result	Unit	Standard Range		Previous Result
Stool Diagnostics					
Microbiome HealthPath					
Moleculargenetic Microbiomeanalysis	MIDI				
Stool Properties					
Colour	brown				NA) V
Consistency	mushy				NA) V
рН	6,0		5,8 - 6,5		NA) TES
Biodiversity					
Diversity	5,51		> 5,0		NA) MGS
Bacteria Phyla (Distribution)					
	0,7	%	1,0 - 5		
Actinobacteria	٥,.		1,0 - 0		NA) MGS
Actinobacteria Bacteroidetes	54,8	%	30 - 60		NA) MGS
Bacteroidetes		%			NA) MGS
Bacteroidetes Firmicutes	54,8		30 - 60		NA) MGS
Bacteroidetes Firmicutes Fusobacteria	54,8 38,9	%	30 - 60 30 - 60		NA) MGS NA) MGS NA) MGS
	54,8 38,9 0,0	%	30 - 60 30 - 60 0,0 - 1,0		NA) MGS  NA) MGS  NA) MGS  NA) MGS  NA) MGS
Bacteroidetes Firmicutes Fusobacteria Proteobacteria	54,8 38,9 0,0 2,1	% % %	30 - 60 30 - 60 0,0 - 1,0 1,5 - 5,0		NA) MGS  NA) MGS  NA) MGS  NA) MGS  NA) MGS
Bacteroidetes Firmicutes Fusobacteria Proteobacteria Verrucomicrobia Other	54,8 38,9 0,0 2,1 <b>0,4</b>	% % %	30 - 60 30 - 60 0,0 - 1,0 1,5 - 5,0		NA) MGS  NA) MGS  NA) MGS  NA) MGS  NA) MGS
Bacteroidetes Firmicutes Fusobacteria Proteobacteria Verrucomicrobia Other	54,8 38,9 0,0 2,1 <b>0,4</b>	% % %	30 - 60 30 - 60 0,0 - 1,0 1,5 - 5,0		NA) MGS  NA) MGS  NA) MGS  NA) MGS  NA) MGS
Bacteroidetes Firmicutes Fusobacteria Proteobacteria Verrucomicrobia	54,8 38,9 0,0 2,1 <b>0,4</b> 2,9	% % % %	30 - 60 30 - 60 0,0 - 1,0 1,5 - 5,0 1,5 - 5		NA) MGS NA) MGS NA) MGS NA) MGS
Bacteroidetes Firmicutes Fusobacteria Proteobacteria Verrucomicrobia Other Ratio Firmicutes/Bacteroidetes	54,8 38,9 0,0 2,1 <b>0,4</b> 2,9	% % % %	30 - 60 30 - 60 0,0 - 1,0 1,5 - 5,0 1,5 - 5		NA) MG  NA) MG  NA) MG  NA) MG  NA) MG

Dysbiosis index

Name Date of Birth Order ID Order Date

First Name Sex Order Date

Test Result Unit Standard Range Previous Result

The dysbiosis index represents a measure of deviations within the microbiome. Depending on their relevance, all detected phyla, genera and species are considered.



Bacteria Phyla - most important genera a	nd species		
Actinobacteria			
Bifidobacteria	2,6 x 10^9 CFU/g faeces	> 5,0 x 10^9	NA) MG
Bifidobacterium adolescentis	33 %		NA) MO
Bifidobacterium longum	18 %		NA) MO
Equol producing bacteria	<b>4,7 x 10^9</b> CFU/g faeces	> 5,0 x 10^9	NA) MC
Bacteroidetes			,
Bacteroides	3,8 x 10^11 CFU/g faeces	> 1,5 x 10^11	NA) MO
Prevotella	2,1 x 10^7 CFU/g faeces	> 1,0 x 10^10	NA) MO
Firmicutes			NA) III
Butyrate producing bacteria			
Faecalibacterium prausnitzii	5,1 x 10^10 CFU/g faeces	> 5,0 x 10^10	NA) MC
Eubacterium rectale	8,2 x 10^9 CFU/g faeces	> 1,0 x 10^10	NA) MO
Eubacterium hallii	5,9 x 10^9 CFU/g faeces	> 5,0 x 10^9	NA) MO
Roseburia species	3,1 x 10^10 CFU/g faeces	> 2,0 x 10^10	NA) M
Ruminococcus species	8,8 x 10^10 CFU/g faeces	> 3,0 x 10^10	
Coprococcus	3,8 x 10^10 CFU/g faeces	> 2,0 x 10^10	NA) M
Total bacterial count	2,0 x 10^11 CFU/g faeces	> 1,3 x 10^11	NA) Mo
Clostridia			NA) MO
Clostridia total bacterial count	9,0 x 10^9 CFU/g faeces	< 4,0 x 10^9	NA) MO
Clostridia cluster I	1,0 x 10^9 CFU/g faeces	< 2,0 x 10^9	NA) M
Fusobacteria			NA) MI
Fusobacterium species	< 1,0 x 10^6 CFU/g faeces	< 1,0 x 10^7	NA) M
Verrucomicrobia			10.9.11
Akkermansia muciniphila	3,7 x 10^9 CFU/g faeces	> 5,0 x 10^9	NA) M
Proteobacteria			,
Pathogenic or potentially pathogenic bac	teria		
Haemophilus	2,6 x 10^9 CFU/g faeces	< 1,0 x 10^9	NA) M
Acinetobacter	< 1,0 x 10^6 CFU/g faeces	< 1,0 x 10^6	NA) M
Escherichia coli Biovare	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	A) KL
Proteus species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	A) KL
Klebsiella species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	A) KI
Citrobacter species	< 1,0 x 10^6 CFU/g faeces	< 5,0 x 10^8	A) N
Enterobacter species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	43.140
Pseudomonas species	< 1,0 x 10^6 CFU/g faeces	< 5,0 x 10^7	A) KI
Providencia species	< 1,0 x 10^6 CFU/g faeces	< 5,0 x 10^7	NA) M
Serratia species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	NA) M
Hafnia species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	A) KI
Morganella species	< 1,0 x 10^4 CFU/g faeces	< 1,0 x 10^4	A) Kl
Histamine producing bacteria	.,00 1 9	,	N

* cooperate analytics (R), A) accredited, NA) not accredited

Name	Dat	e of Birth		Order ID	
First Name	Sex			Order Date	
Test	Result	Unit	Standard Range		Previous Result
Histamine producing bacteria	< 1,0 x 10^6	< 1,0 x 10^6 CFU/g faeces			FE NA) MGSEC
H2S production					
Sulphate reducing bacteria	5,2 x 10^9	CFU/g faeces	< 2,0 x 10^9		FE NA) MGSEQ
Archaea					
Methanobrevibacter	1,7 x 10^9	CFU/g faeces	< 1,0 x 10^8		FE NA) MGSEQ
Immunogenicity / Mucus produc	ction				
Immunogenically effective bact	eria				
Escherichia coli	1,0 x 10^5	CFU/g faeces	10^6 - 10^7		FE A) KULTAZ
Enterococcus species	1,0 x 10^5	CFU/g faeces	10^6 - 10^7		FE A) KULTAZ
Lactobacillus species	< 1,0 x 10^4	CFU/g faeces	10^5 - 10^7		FE A) KULTAZ
Mucin production / Mucosa bar	rier				,
Akkermansia muciniphila	3,7 x 10^9	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEC
Faecalibacterium prausnitzii	5,1 x 10^10 (	CFU/g faeces	> 5,0 x 10^10		FE NA) MGSEQ
Yeasts / Molds					,
Candida albicans	< 1,0 x 10^3	CFU/g faeces	< 1,0 x 10^3		FE A) KULTAZ
Candida species	< 1,0 x 10^3	CFU/g faeces	< 1,0 x 10^3		FE A) KULTAZ
Geotrichum candidum	< 1,0 x 10^3	CFU/g faeces	< 1,0 x 10^3		FE A) KULTAZ
Moulds	negative		negative		FE
Parasites					A) KULTAZ
Pathobionts					
Blastocystis hominis	borderline		negative		FE NA) MOLEK
Dientamoeba fragilis	positive		negative		FE NA) MOLEK
Pathogenic intestinal protozoa					NA) MOLLI
Giardia lamblia	negative		negative		FE NA) MOLEK
Entamoeba histolytica	negative		negative		FE
Cryptosporidium species	negative		negative		NA) MOLEK
Cyclospora cayetanensis	negative		negative		NA) MOLEK
Special Request					NA) MOLEK
Haemoglobin in stool immunolo	ogical <10	μg/g	< 10		FE
Calprotectin	<17,90	mg/l	< 50		A) ELISA FE
Secretory IgA	2126,4	μg/ml	510 - 2040		A) ELISA
Pancreatic elastase	302,13	μg/g	> 200		A) ELISA FE
Gastro diagnostics	502,10	F-3/3			A) ELISA

negative

negative

Helicobacter AG

fat and protein reduction, milieu stabilizing probiotics, prebiotics on the basis of resistant starch or scFOS/scGOS

immunogenic effective / toxin inhibiting probiotics*

Fusobacteria

Histamine producing bacteria

H2S producing bacteria (SRB)

Potentially pathogenic bacteria

Candida (facultive pathogenic)





In range Out of range Next steps



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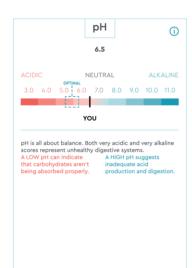
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## At a glance

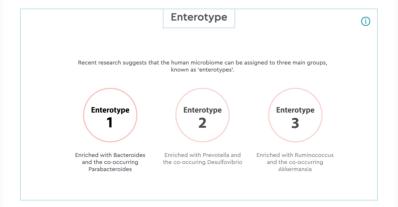
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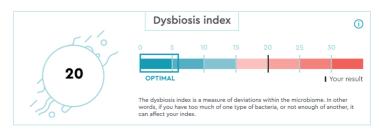














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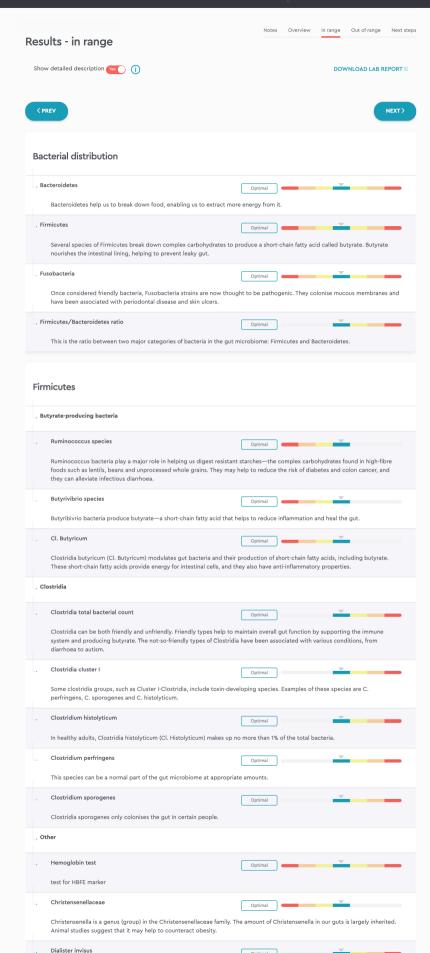
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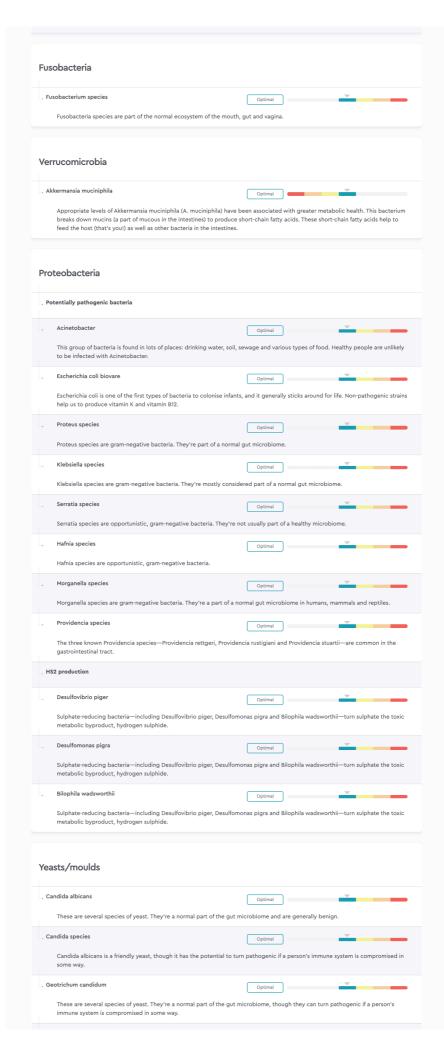
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Although Dialister invisus may play a role in oral cavity infections, little is known of its function in the intestines.



Moulds Some types of mould—particularly a type called Aspergillus—are found in the gut. They don't present a problem unless someone's immune system is compromised, such as in critically ill patients. Moulds can also become problematic if someone has a 'weak' (not very diverse) microbiome. They can contribute to brain fog, fatigue and other non-specific symptoms. **Parasites** Pathobionts Blastocystis hominis Negative We have discovered 17 different types of Blastocystis so far, and not all of them cause symptoms. The faecal-to-oral route is the most common mode of infection, which means we typically get it through drinking contaminated water or through poor hygiene practices. Helicobacter AG Negative This is a species of bacteria that's usually found in the stomach. Pathogenic intestinal protozoa Giardia lamblia Negative Giardia lamblia is the leading cause of infectious gastroenteritis worldwide. Most people believe that foreign travel—especially in developing countries—is the most common reason for infection, but it's just as easy to pick up the parasite in the UK. Things that increase the likelihood of infection are changing children's nappies, swallowing contaminated water (e.g. from swimming pools), eating raw food, sexual activity and owning a dog. Entamoeba histolytica Negative Entamoeba histolytica infection can occur if we drink water contaminated by faeces or eat food that contains Entamoeba histolytica cysts. Infection is most common in tropical and subtropical areas. It can also be transmitted sexually, as well as being passed between people who live together. Cryptosporidium species Negative Along with Blastocystis and Giardia, Cryptosporidium species are believed to play a role in the development of IBS. We can pick Cryptosporidium species up from animals, other humans, water and food. Cyclospora cayetanensis Negative This parasite is mostly found in tropical waters, and seems most prevalent in travellers returning from Mexico. It can also be found in contaminated food. Functional markers . Calprotectin Optimal Calprotectin is a marker of gut inflammation. It's used to distinguish between cases of IBS and IBD (which includes Crohn's disease and ulcerative colitis). . Secretory IgA Secretory IgA is an antibody that helps to reduce inflammation. The immune system releases it into the gut in response to infections. . Zonulin The biomarker zonulin serves as a measure for properdin—a protein that activates cell-to-cell messaging pathways. Along with

other proteins in the zonulin family, properdin plays a key role in regulating the gaps between intestinal cells (a.ka. preventing

leaky gut). Appropriate levels of zonulin indicate stable and tight gaps between cells.



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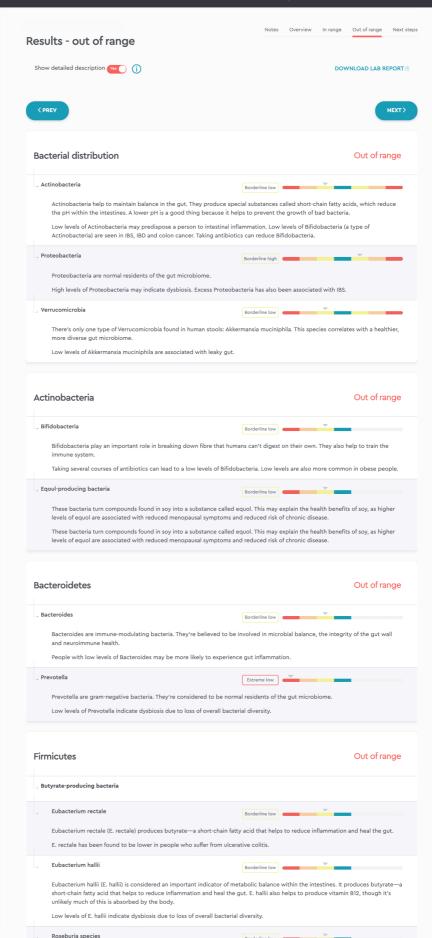
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Roseburia species produce butyrate—a short-chain fatty acid that helps to reduce inflammation and heal the gut. Appropriate

levels of Roseburia species have also been associated with weight loss and improved glucose tolerance

