bio|vis' DIAGNOSTIK

DAkkS Deutsche Akkreditierungsstelle D-ML-13188-01-00

External ID

Name	Date of Birth	Order ID	
First Name	Sex	Order Date	
Sampling Date	Validation Date	Findings Status	**Final Report**
Sample Material	Validation on	Findings Date	

Test	Result	Unit	Standard Range	Previous Result
Mikrobiomanalyse Midi PLUS (Microbioom Center)				
Moleculargenetic Microbiomeanalysis MIDI				
Stool Properties				
Colour	dark brown			FE NA) VISU
Consistency	tough pasty			FE NA) VISU
pH	7,2		5,8 - 6,5	FE NA) TESTS
Biodiversity				
Diversity	5,46		> 5,0	FE NA) MGSEQ

The bacterial diversity in the intestinal tract may vary considerably from person to person. Antibiotic therapies, infections, increasing age, unbalanced diets or smoking are causes of declining diversity.

Grad **5**

Bacteria Phyla (Distribution)				
Actinobacteria	1,3	%	1,0 - 5	FE NA) MGSEQ
Bacteroidetes	50,6	%	30 - 60	FE NA) MGSEQ
Firmicutes	39,3	%	30 - 60	FE NA) MGSEQ
Fusobacteria	0,0	%	0,0 - 1,0	FE NA) MGSEQ
Proteobacteria	3,1	%	1,5 - 5,0	FE NA) MGSEQ
Verrucomicrobia	1,8	%	1,5 - 5	FE NA) MGSEQ
Other	3,9	%		FE NA) MGSEQ
Ratio				
Firmicutes/Bacteroidetes	0,78	Quotient	< 1,5	FE NA) RECHN
Enterotype				
Prevotella				FE NA) MGSEQ

Human intestinal microbiomes can be differentiated into three Enterotypes. Enterotypes are defined by dominant bacterial clusters with distinct metabolic properties.

Enterotyp **2**

Dysbiosis index

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

NA) RECHN

Index **7**

FE=stool

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

Name	Date of Birth	Order ID	
First Name	Sex	Order Date	15.07.2020

Test	Result	Unit	Standard Range	Previous Result	Sample Material Method
Bacteria Phyla - most important genera and species					
Actinobacteria					
Bifidobacteria	6,5 x 10^9	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEQ
Bifidobacterium longum	82	%			FE NA) MGSEQ
Bifidobacterium adolescentis	18	%			FE NA) MGSEQ
Equol producing bacteria	6,4 x 10^9	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEQ
Bacteroidetes					
Bacteroides	1,2 x 10^11	CFU/g faeces	> 1,5 x 10^11		FE NA) MGSEQ
Prevotella	2,5 x 10^11	CFU/g faeces	> 1,0 x 10^10		FE NA) MGSEQ
Prevotella copri	25	%			FE NA) MGSEQ
Firmicutes					
Butyrate producing bacteria					
Faecalibacterium prausnitzii	9,8 x 10^10	CFU/g faeces	> 5,0 x 10^10		FE NA) MGSEQ
Eubacterium rectale	3,1 x 10^9	CFU/g faeces	> 1,0 x 10^10		FE NA) MGSEQ
Eubacterium hallii	3,6 x 10^9	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEQ
Roseburia species	1,1 x 10^10	CFU/g faeces	> 2,0 x 10^10		FE NA) MGSEQ
Ruminococcus species	3,2 x 10^10	CFU/g faeces	> 3,0 x 10^10		FE NA) MGSEQ
Coprococcus	2,9 x 10^10	CFU/g faeces	> 2,0 x 10^10		FE NA) MGSEQ
Total bacterial count	1,7 x 10^11	CFU/g faeces	> 1,3 x 10^11		FE NA) MGSEQ
Clostridia					
Clostridia total bacterial count	2,5 x 10^9	CFU/g faeces	< 4,0 x 10^9		FE NA) MGSEQ
Clostridia cluster I	9,5 x 10^8	CFU/g faeces	< 2,0 x 10^9		FE NA) MGSEQ
Fusobacteria					
Fusobacterium species	< 1,0 x 10^6	CFU/g faeces	< 1,0 x 10^7		FE NA) MGSEQ
Verrucomicrobia					
Akkermansia muciniphila	1,7 x 10^10	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEQ
Proteobacteria					
Pathogenic or potentially pathogenic bacteria					
Haemophilus	1,3 x 10^8	CFU/g faeces	< 1,0 x 10^9		FE NA) MGSEQ
Acinetobacter	< 1,0 x 10^6	CFU/g faeces	< 1,0 x 10^6		FE NA) MGSEQ
Escherichia coli Biovare	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Proteus species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Klebsiella species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Enterobacter species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Serratia species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Hafnia species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) KULTAZ
Morganella species	< 1,0 x 10^4	CFU/g faeces	< 1,0 x 10^4		FE NA) MIB
Histamine producing bacteria					
Histamine producing bacteria	< 1,0 x 10^6	CFU/g faeces	< 5,0 x 10^8		FE NA) MGSEQ
H2S production					
Sulphate reducing bacteria	2,2 x 10^9	CFU/g faeces	< 2,0 x 10^9		FE NA) MGSEQ
Immunogenicity / Mucus production					
Immunogenically effective bacteria					
Escherichia coli	2,0 x 10^7	CFU/g faeces	10^6 - 10^7		FE NA) KULTAZ
Enterococcus species	1,0 x 10^6	CFU/g faeces	10^6 - 10^7		FE NA) KULTAZ

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Lactobacillus species	1,0 x 10^5	CFU/g faeces	10^5 - 10^7		FE NA) KULTAZ
Mucin production / Mucosa barrier					
Akkermansia muciniphila	1,7 x 10^10	CFU/g faeces	> 5,0 x 10^9		FE NA) MGSEQ
Faecalibacterium prausnitzii	9,8 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 NA) KULTAZ
Candida species	< 1,0 x 10^3	CFU/g faeces	< 1,0 x 10^3		FE NA) KULTAZ
Geotrichum candidum	**4,0 x 10^5**	CFU/g faeces	< 1,0 x 10^3		FE NA) KULTAZ
Moulds	negative		negative		FE NA) KULTAZ
Parasites					
Pathobionts					
Blastocystis hominis	positive		negative		FE A) MOLEK
Dientamoeba fragilis	negative		negative		FE A) MOLEK
Pathogenic intestinal protozoa					
Giardia lamblia	negative		negative		FE A) MOLEK
Entamoeba histolytica	negative		negative		FE A) MOLEK
Cryptosporidium species	negative		negative		FE A) MOLEK
Cyclospora cayetanensis	negative		negative		FE A) MOLEK
Digestive Residues					
Quantitative determination of fat	**6,80**	g/100g	< 3,5		FE NA) PHOT
Quantitative determination of nitrogen	0,80	g/100g	< 1,0		FE NA) PHOT
Quantitative determination of sugar	**2,60**	g/100g	< 2,5		FE NA) PHOT
Quantitative determination of water	**72,00**	g/100g	75 - 85		FE NA) PHOT
Special Request					
Calprotectin	<17,90	mg/l	< 50		FE A) ELISA
Alpha1-Antitrypsin	<1,8	mg/dl	< 27,5		FE A) ELISA
Secretory IgA	**<167,0**	µg/ml	510 - 2040		FE A) ELISA
Zonulin	42,26	ng/ml	< 55		FE A) ELISA
Special gastro-enterological diagnostics					
Gluten-Sensitive Enteropathy / Celiac Disease					
Anti-Gliadin antibodies in stool	<25,00	U/l	< 100		FE A) ELISA
Anti-Transglutaminase antibodies in stool	<50,00	U/l	< 100		FE A) ELISA

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Overview - Results and Therapy Options

Dysbiose-Index 7

pH	↑	milieu stabilizing probiotics *
Enterotype	2	check vitamin B2, B5, C and biotin supply
Biodiversitiy	●	
Ratio Firmicutes/Bacteroidetes	●	
Equol producing bacteria	●	
Butyrate producing bacteria	↓	prebiotics on the basis of resistant starch* or scFOS/scGOS*
Mucus production	●	
Mucosa integrity	●	
Milieu stabilising bacteria	●	
Immunogenic bacteria	↑	immunogenic effective probiotics*
Clostridia - total bacteria count	●	
Clostridia cluster I	●	
Fusobacteria	●	
Histamine producing bacteria	●	
H2S producing bacteria (SRB)	↑	fat and protein reduction, milieu stabilizing probiotics, prebiotics on the basis of resistant starch or scFOS/scGOS
Potentially pathogenic bacteria	●	
Candida (facultive pathogenic)	●	