-. MAEVE BEARY



P: 1300 688 522 E: info@nutripath.com.au A: PO Box 442 Ashburton VIC 3142 Date of Birth: 11-Jan-1968
Sex: M
Collected: 4/May/2021
Received: 07-May-2021
44 ABBOTT ROAD
NORTH CURL CURL NSW 2099
Lab id: 3738576 UR#: 6569841

13 ILUKA AVENUE MANLY NSW 2095

COMPLETE MICROBIOME MAPPING

General Macroscopic Description							
	Result	Range	Markers				
Stool Colour	Brown		Colour - Brown is the colour of normal stool. Other colours may indicate abnormal GIT conditions.				
Stool Form	Semi-formed		Form -A formed stool is considered normal. Variations to this may indicate abnormal GIT conditions.				
Mucous	NEG	<+	Mucous - Mucous production may indcate the presence of an infection, inflammation or malignancy.				
Occult Blood	NEG	<+	Blood (Macro) - The presence of blood in the stool may indicate possible GIT ulcer, and must always be investigated immediately.				

¢	GIT Functional Markers	Result	Range	Units	
	Calprotectin.	11.0	0.0 - 50.0	ug/g	
	Pancreatic Elastase	>500.0	> 200.0	ug/g	
	Faecal Secretory IgA	757.7	510.0 - 2010	0 ug/g	
	Faecal Zonulin	94.1	0.0 - 107.0	ng/g	
	Faecal B-Glucuronidase	753.4	337.0 - 4433	0 U/g	BELOW SECURIO
	Steatocrit	9.0	0.0 - 15.0	%	BOOK ORDERS
	anti-Gliadin IgA	<20	0.0 - 157.0	units/L	

Microbiome Mapping Summary Parasites & Worms

Bacteria & Viruses

Streptococcus species Methanobacteriaceae Citrobacter freundii. Klebsiella pneumoniae.

Fungi and Yeasts

Key Phyla Microbiota

* Bacteroidetes

Firmicutes
Firmicutes:Bacteroidetes Ratio

5.22 *L 8.61 - 33.10 x10^11 org/g 8.24 5.70 - 30.40 x10^10 org/g

0.16 < 1.00 RATIO

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arasites and Worms.	Result	Range	Units		
Parasitic Organisms					
Cryptosporidium.	<dl< td=""><td>< 1.0</td><td>x10^6 org/g</td><td></td></dl<>	< 1.0	x10^6 org/g		
Entamoeba histolytica.	<dl< td=""><td>< 1.0</td><td>x10^4 org/g</td><td></td></dl<>	< 1.0	x10^4 org/g		
Giardia lamblia.	<dl< td=""><td>< 5.0</td><td>x10^3 org/g</td><td></td></dl<>	< 5.0	x10^3 org/g		
Blastocystis hominis.	<dl< td=""><td>< 2.0</td><td>x10^3 org/g</td><td></td></dl<>	< 2.0	x10^3 org/g		
Dientamoeba fragilis.	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></td></dl<>	< 1.0	x10^5 org/g		
Endolimax nana	<dl< td=""><td>< 1.0</td><td>x10⁴ org/g</td><td></td></dl<>	< 1.0	x10 ⁴ org/g		
Entamoeba coli.	<dl< td=""><td>< 5.0</td><td>x10^6 org/g</td><td></td></dl<>	< 5.0	x10^6 org/g		
Pentatrichomonas hominis	<dl< td=""><td>< 1.0</td><td>x10^2 org/g</td><td></td></dl<>	< 1.0	x10^2 org/g		
Worms	101		2 0.9.9		
Ancylostoma duodenale, Roundworm	Not D	etected		Comment: Not Detected requite indicate	
Ascaris lumbricoides, Roundworm		etected	Comment: Not Detected results indicate the absence of detectable DNA in this		
Necator americanus, Hookworm		etected		sample for the worms reported.	
Trichuris trichiura, Whipworm		etected		sample for the worms reported.	
Taenia species, Tapeworm		etected			
Enterobius vermicularis,Pinworm		etected			
pportunistic Bacteria/Overgr	Result	Range	Units		
Bacillus species.	<dl< td=""><td>< 1.5</td><td>x10^5 org/g</td><td></td></dl<>	< 1.5	x10^5 org/g		
Enterococcus faecalis	<dl< td=""><td>< 1.0</td><td>x10°4 org/g</td><td></td></dl<>	< 1.0	x10°4 org/g		
Enterococcus faecium	<dl< td=""><td>< 1.0</td><td>x10 4 org/g x10^4 org/g</td><td></td></dl<>	< 1.0	x10 4 org/g x10^4 org/g		
Morganella species	<dl< td=""><td>< 1.0</td><td>x10 4 org/g x10^3 org/g</td><td></td></dl<>	< 1.0	x10 4 org/g x10^3 org/g		
Pseudomonas species	<dl< td=""><td>< 1.0</td><td>x10 '4 org/g</td><td></td></dl<>	< 1.0	x10 '4 org/g		
Pseudomonas aeruginosa.	<dl< td=""><td>< 5.0</td><td>x10^2 org/g</td><td></td></dl<>	< 5.0	x10^2 org/g		
Staphylococcus species	<dl< td=""><td>< 1.0</td><td>x10^4 org/g</td><td></td></dl<>	< 1.0	x10^4 org/g		
Staphylococcus aureus	<dl< td=""><td>< 5.0</td><td>x10^2 org/g</td><td></td></dl<>	< 5.0	x10^2 org/g		
Streptococcus species	1.0 *H		x10^3 org/g		
Methanobacteriaceae	5.60 *H		x10^9 org/g		
Desulfovibrio piger	<dl< td=""><td>0.0 - 18.0</td><td>x10^7 org/g</td><td></td></dl<>	0.0 - 18.0	x10^7 org/g		
Oxalobacter formigenes	20.0	> 15.0	x10^7 org/g		
otential Autoimmune Triggers		A CANCELLE	3.0		
Citrobacter species.	<dl< td=""><td>< 5.0</td><td>x10^5 org/g</td><td></td></dl<>	< 5.0	x10^5 org/g		
	104.0 *H		x10^5 org/g		
Klebsiella species	<dl< td=""><td>< 5.0</td><td>x10^3 org/g</td><td></td></dl<>	< 5.0	x10^3 org/g		
Klebsiella pneumoniae.	24.4 *H		x10^4 org/g		
Prevotella copri	<dl< td=""><td>< 1.0</td><td>x10^7 org/g</td><td></td></dl<>	< 1.0	x10^7 org/g		
Proteus species	<dl< td=""><td>< 5.0</td><td>x10^4 org/g</td><td></td></dl<>	< 5.0	x10^4 org/g		

Proteus mirabilis. Fusobacterium species	<dl< th=""><th>< 1.0 < 10.00</th><th>x10^3 org/g x10^7 org/g</th><th></th><th></th></dl<>	< 1.0 < 10.00	x10^3 org/g x10^7 org/g		
ungi & Yeast	Result		Units		
Candida species.	2.1	< 5.0	x10^3 org/g	0	
Candida albicans.	<dl< td=""><td>< 5.0</td><td>x10^2 org/g</td><td></td><td></td></dl<>	< 5.0	x10^2 org/g		
Geotrichum species.	<dl< td=""><td>< 3.0</td><td>x10^2 org/g</td><td></td><td></td></dl<>	< 3.0	x10^2 org/g		
Microsporidium species	<dl< td=""><td>< 5.0</td><td>x10^3 org/g</td><td></td><td></td></dl<>	< 5.0	x10^3 org/g		
Rhodotorula species.	<dl< td=""><td>< 1.0</td><td>x10^3 org/g</td><td></td><td></td></dl<>	< 1.0	x10^3 org/g		

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cterial Pathogens	Result	Range	Units	
Aeromonas species.	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td>THE RESIDENCE</td></dl<>	< 1.0	x10^3 CFU/g	THE RESIDENCE
Campylobacter.	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td>ASSESSMENT OF THE PARTY OF THE</td></dl<>	< 1.0	x10^3 CFU/g	ASSESSMENT OF THE PARTY OF THE
C. difficile, Toxin A	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td>900 展開書の875</td></dl<>	< 1.0	x10^3 CFU/g	900 展開書の875
C. difficile, Toxin B	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Enterohemorrhagic E. coli	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
E. coli O157	<dl< td=""><td>< 1.0</td><td>x10^2 CFU/g</td><td></td></dl<>	< 1.0	x10^2 CFU/g	
Enteroinvasive E. coli/Shigella	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td>MD12世間開始100000</td></dl<>	< 1.0	x10^3 CFU/g	MD12世間開始100000
Enterotoxigenic E. coli LT/ST	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Shiga-like Toxin E. coli stx1	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td>BELL ENGINEERS</td></dl<>	< 1.0	x10^3 CFU/g	BELL ENGINEERS
Shiga-like Toxin E. coli stx2	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Salmonella.	<dl< td=""><td>< 1.0</td><td>x10^4 CFU/g</td><td></td></dl<>	< 1.0	x10^4 CFU/g	
Vibrio cholerae	<dl< td=""><td>< 1.0</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.0	x10^5 CFU/g	
Yersinia enterocolitica.	<dl< td=""><td>< 1.0</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.0	x10^5 CFU/g	
Helicobacter pylori	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
omment: Helico Pylori virulenc	e factors	will be liste	d below if detected POSI	TIVE
H.pylori Virulence Factor, babA	Not D	etected	H.pylori Virulence Factor, ca	gA Not Detected
H.pylori Virulence Factor, dupA	Not D	etected	H.pylori Virulence Factor, ice	A Not Detected
H.pylori Virulence Factor, oipA	Not D	etected	H.pylori Virulence Factor, va	cA Not Detected
H.pylori Virulence Factor, virB	Not D	etected	H.pylori Virulence Factor, vir	D Not Detected
al Pathogens	Result	Range	Units	
Adenovirus 40/41	<dl< td=""><td>< 1.0</td><td>x10^10 CFU/g</td><td>SELECTION OF THE PARTY OF THE P</td></dl<>	< 1.0	x10^10 CFU/g	SELECTION OF THE PARTY OF THE P
Norovirus GI/II	<dl< td=""><td>< 1.0</td><td>x10^7 CFU/g</td><td></td></dl<>	< 1.0	x10^7 CFU/g	
Bocavirus	<dl< td=""><td>< 1.0</td><td>x10^10 CFU/g</td><td>WATER BOOK OF THE PARTY OF THE</td></dl<>	< 1.0	x10^10 CFU/g	WATER BOOK OF THE PARTY OF THE
rmal Bacterial GUT Flora	Result	Range	Units	
Bacteroides fragilis	1.5 *L	1.6 - 250.0	x10^9 CFU/g	
Bifidobacterium species	3.3 *L	> 6.7	x10^7 CFU/g	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
Bifidobacterium longum	1.4 *L	> 5.2	x10^6 CFU/g	NAME OF TAXABLE PARTY.
Enterococcus species	2.0	1.9 - 2000.0	x10^5 CFU/g	DOMESTIC STATE
Escherichia species	1.5 *L	3.7 - 3800.0	x10^6 CFU/g	ST CONTRACTOR AND A
Lactobacillus species	244.3	8.6 - 6200.0	x10^5 CFU/g	DE SERBES BEE
Lactobacillus Rhamnosus	109.6	8.3 - 885.0	x10^4 CFU/g	MANAGEMENT OF STREET
Clostridium species	18.3	5.0 - 50.0	x10^6 CFU/g	Marie Barrier
Enterobacter species	3.6	1.0 - 50.0	x10^6 CFU/g	
Akkermansia muciniphila	<dl*l< td=""><td>0.01 - 50.00</td><td>x10^3 CFU/g</td><td>TO CHEST AND LOSS.</td></dl*l<>	0.01 - 50.00	x10^3 CFU/g	TO CHEST AND LOSS.
Faecalibacterium prausnitzii	1114.3	1.0 - 500000	x10^3 CFU/g	N. STREET, PART
ort Chain Fatty Acids	Result	Range	Units	
Short Chain Fatty Acids, Beneficial	97.2	> 13.6	umol/g	•
Butyrate	13.7	10.8 - 33.5	%	
	59.6	44.5 - 72.4	%	
Acetate	33.0			
Acetate Propionate	25.2	0.0 - 32.0	%	

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ALASTAIR SINTON



Date of Birth: 11-Jan-1968
Sex: M
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Received: 07-May-2021
44 ABBOTT ROAD
NORTH CURL CURL NSW 2099
Lab id: 3738576 UR#: 6569841

Date of Birth: 11-Jan-1968

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13 ILUKA AVENUE MANLY NSW 2095

Printed: 14/May/21 16:57

Pathogen Summary:

info@nutripath.com.au A: PO Box 442 Ashburton VIC 3142

Macroscopy Comment

BROWN coloured stool is considered normal in appearance.

Metabolism Comment

In a healthy gut Short Chain Fatty Acids are exhibited in the following proportions; Butyrate, Acetate, Propionate (16%:60%:24%)

VALERATE:
Valerate is a short chain fatty acid that is important for gut health. Although Acetate, propionate, and butyrate make up the the most abundant SCFAs in gastrointestinal tract (95%), Valerate and other SCFA's make up the remaining and work optimally when within

GIT Markers Comment

PANCREATIC ELASTASE: Normal exocrine pancreatic function.
Pancreatic Elastase reflects trypsin, chymotrypsin, amylase and lipase activity.
Pancreatic Elastase reflects trypsin, chymotrypsin, amylase and lipase activity.
Pris test is not affected by supplements of pancreatic enzymes.
Pealthy individuals produce on average 500 ug/g of PE-1. Thus, levels below 500 ug/g and above 200 ug/g suggest a deviation from potimal pancreatic function.
Pancreatic function.
The clinician should therefore consider digestive enzyme supplementation if one or more of the following conditions is present:
Loose watery stools, Undigested food in the stools, Post-prandial abdominal pain, Nausea or colicky abdominal pain,
Gastroesophageal reflux symptoms, Bloating or food intolerance.

CALPROTECTIN Normal:
Faecal calprotectin values <50 ug/g are not indicative of inflammation in the gastrointestinal tract. Subjects with low faecal calprotectin levels normally do not need to be further investigated by invasive procedures.

FAECAL SECRETORY Iga:
Production of siga is important to the normal function of the gastrointestinal mucosa as an immune barrier.
It represents the first line immune defense of the GIT.
Elevated levels are associated with an upregulated immune response.

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Opportunistic Bacteria Comment

STREPTOCOCCUS SPECIES:

Streptococcus is a gram-positive bacteria in the Firmicutes phylum. Streptococcus is generally a common isolate from gut flora. However, emerging research suggests that high levels in the intestine may result from low stomach acid, PPI use, reduced digestive capacity, SIBO or constipation; Elevated levels may also be indicative of intestinal inflammatory activity, and may cause loose stools.

Sources:

Recent infections with streptococcus pyogenes or scarlet fever can be linked to the presence of this species in faeces.

Treatment of streptococcus in gut flora is not always recommended. A practitioner may take into consideration a range of patient factors and symptoms to determine if treatment is necessary. In this case please refer to the 4R treatment protocol located at the end of this report.

METHANOBACTERIACEAE:

Family of bacteria-like microbes that produce methane. Facilitates carbohydrate fermentation and short-chain fatty acid production by beneficial bacteria.

LOW levels may indicate reduced production of short-chain fatty acids and may be associated with inflammation.

HIGH levels linked to chronic constipation, as well as some types of SIBO and IBS.

Sulfate is present in different concentrations in the intestine dependent on diet. Remnants not absorbed, alongside the presence of lactate, promote the growth of Sulfate reducing bacteria (SRB). Desulfovibrio Piger is the dominant SRB genus and has been implicated in gastrointestinal disorders such as ulcerative colitis via the reduction of sulfate to hydrogen sulphide in the gut. High Delsulfovibrio piger levels serves as an indicator of inflammatory bowel disease.

Treatment options include lowering the intake of sulfate rich foods such as some breads, dried fruits, beers, ciders and wines. Reference: Kushkevych et. Al., J. Clin. Med. 2019, 8, 1054; doi:10.3390/jcm8071054

OXALOBACTER COMMENT:

Oxolate is formed in the liver by amino acid catabolism as well as present in a wide range of foods including tea, coffee, chocolate and certain fruits and vegetables. High concentration of oxalate in the urine is related to the potential formation of calcium oxalate kidney stones. Oxolobacter Formigenes is the main known bacterial species involved in oxalate degradation in the gut. Levels of O. Formigenes tends to decrease with age as well as with the use of antibiotics or other drugs, with low levels identified as a risk factor for calcium oxide stone formation. Treatment options include probiotic treatment and low oxalate diet modification.

Urinary oxalate levels can also be monitored by test code 4025 (oxalate urinary).

Reference: Duncan et. al., Applied and Environmental Microbiology, Aug. 2002, p. 3841-3847

Kaufman et. al., J Am Soc Nephrol. 2008 Jun; 19(6): 1197-1203.

Potential Autoimmune Comments

ELEVATED CITROBACTER FREUNDII LEVEL:

Citrobacter is a gram-negative bacteria in the Enterobacteriaceae family. Common in the environment and may be spread by person-to person contact. Several outbreaks have occurred in bables in hospital units. Isolated from water, fish, animals and food.

Citrobacter is considered an opportunistic pathogen and therefore can be found in the gut as part of the normal flora.

Symptoms

Citrobacter has occasionally been implicated in diarrheal disease, particularly C. freundii and C. diversus and C. koseri

Treatment:
Treatment is not generally required in low amounts. However, where high levels are present and patients are symptomatic. A combination of oregano, plant tannins and oregano has shown high susceptibility.
For further information, refer to the 4R treatment protocol located at the end of this report.
ELEVATED KLEBSIELLA PNEUMONIAE LEVEL:

Sources:

Klebsiella is part of the Enterobacteriaceae family and as such is a gram-negative bacteria. Klebsiella is Isolated from foods and environmental sources. Klebsiella appears to thrive in individuals on a high starch diet.

Pathogenicity:

Patnogenicity:
Part of the normal gut flora in small numbers, but can be an opportunistic pathogen.
Klebsiella is capable of translocating from the gut when in high numbers.

Complete Microbiome Map Lab ID: 3738576 Patient Name: ALASTAIR SINTON Page 5 of 7

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Certain strains of K. oxytoca have demonstrated cytotoxin production.

When Klebsiella is found in considerable amounts, symptoms may include abdominal pain, bloating, loose stools, anxiety, insomnia, food allergies.

Avoiding carbohydrates such as rice, potatoes, flour products and sugary foods reduces the amount of Klebsiella in the gut Other Herbal antimicrobials include:

Lemon and clove, Burr marigold, Thyme, Licorice, euphobia, cordyceps. For further treatment options, refer to the 4R treatment protocol located at the end of this report.

FUSOBACTERIUM SPECIES:

Fusobacterium species is a gram-negative bacteria in the Fusobacteria phylum. The bacteria is a common member of the human oral microbiome, this pro-inflammatory bacterium can also be found in the human gut. In the mouth, high levels are strongly linked to oral hygiene. In the gut, high levels have been observed in individuals with colon cancer and appendicitis.

It primarily uses protein as its main source. However, research also shows that it can thrive from sugar.

Treatment:

Antimicrobial botanicals such as berberine, oregano, quercetin, curcumin, green and black tea extracts, blueberry extract, cinnamon and rosemary have shown to decrease levels.

Phyla Microbiota Comment

LOW BACTEROIDETES LEVEL:

Gram-negative Bacteroidetes are a bacterial phyla that make up a large proportion of the human digestive tract, including the mouth, nose, throat, and colon. A low result in bacteroidetes may suggest imbalanced normal microbes in the GI tract.

A lower level of bacteroidetes is considered an unfavourable outcome which allows for the potential of elevated firmicutes leading to a possible imbalanced firmicutes:bacteroidetes ratio. Treatment:

Treatment.

It is suggested to eat a diverse range of foods including polyphenols. It is further suggested to decrease foods rich in fat and sugar as they encourage firmicute levels to rise. Investigate other causes relating to a low bacteroidetes level.

Normal Bacterial Flora Comment

LOW BACTEROIDES FRAGILIS LEVEL:

Organism of the Bacteroidetes phylum. Immune-modulating normal gut species believed to be involved in microbial balance, barrier integrity, and neuroimmune health. Low levels may contribute to reduced anti- inflammatory activity in the intestine.

LOW BIFIDOBACTERIUM LEVEL:

Organism of the Actinobacteria phylum.

Low levels may result from low fiber intake or reduced mucosal health. Thrives on a wide variety of prebiotic fibers.

LOW BIFIDOBACTERIUM LONGUM LEVEL:

Bifidobacterium longum is one of the well-established problotic strains with numerous profound health benefits in humans. Supplementing with Bifidobacterium longum has been effective in alleviating gastrointestinal, immunological and infectious diseases. Increasingly, evidence is accumulating which shows beneficial effects of supplementation with bifidobacteria for the improvement of human health conditions ranging from protection against infection to different extra- and intra-intestinal positive effects. Moreover, bifidobacteria have been associated with the production of a number of potentially health promoting metabolites including short chain fatty acids.

LOW ESCHERICHIA SPECIES LEVEL:

Organism of the Proteobacteria phylum. Escherichia coli (E. coli) is the primary species in this genus, and most are nonpathogenic. Low levels may indicate reduced mucosal health and decreased protection against pathogenic E. coli.

LOW AKKERMANSIA MUCINIPHILA LEVEL:

Akkermansia muciniphila is an organism that lives in the mucus lining of your gut and uses mucus as its primary energy source. This species plays an important role in regulating mucus turnover in the gut so that there is a good balance between mucus breakdown and mucus production. Akkermansia muciniphila promotes healthy intestinal barrier and modulates immune responses.

Low levels of Akkermansia muciniphila has been observed in individuals with IBS, high fat diets, obesity, and type 2 diabetes.

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The Four "R" Treatment Protocol

	Using a course of antimicrobial, antibacterial,	ANTIMICROBIAL	Oil of oregano, berberine, caprylic acid
	antiviral or anti parastic therapiesin cases where organisms are present. It may also be necessary to remove offending foods gluten, or	ANTIBACTERIAL	Liquorice, zinc camosine, mastic gum, tribulus, berberine, black walnut, caprylic acid, oil of oregano
REMOVE		ANTIFUNGAL	Oil of oregano, caprylic acid, berberine, black walnut
	medication that may be acting as antagonists.	ANTIPARASTIC	Artemesia, black walnut, berberine, oil of oregano
	Consider testing IgG96 foods as a tool for removing offending foods	ANTIVIRAL	Cat's claw, berberine, echinacea, vitamin C, vitamin D3, zinc, reishi mushrooms
		BORLM	Oil of oregano, protease
REPLACE	In cases of maldigestion or malabsorption, it may be necessary to restore proper digestion by supplementing with digestive enzymes.	DIGESTIVE SUPPORT	Betaine hydrochloride, tilactase, amylase, lipase, protease, apple cider vinegar, herbal bitters
Щ	Recolonisation with healthy, beneficial bacteria. Supplementation with probiotics, along with the use of prebiotics helps re-establish the proper microbial balance.	PREBIOTICS	Sippery elm, pectin, larch arabinogalactans
RENOCULATE		PROBIOTICS	Bfidobacterium animalis sup lactise, lactobacillus acidophilus, lactobacillus plantarum, lactobacillus casei, bifidobacterium breve, bifidobacterium bifidom, bifidobacterium longum, lactobacillus salivarius sep salivarius lactobacillus paracasei, lactobacillus rhamnosus, Saccaromyces boulardii
ANCE	Restore the integrity of the gut mucosa by giving support to healthy mucosal cells, as well as immune support. Address whole body health and lifestyle factors so as to prevent future GI dysfunction.	INTESTINAL MUCOSA IMMUNE SUPPORT	Saccaromycesboulardii, lauric acid
REPAIR & REBALANCE		INTESTINAL BARRIER REPAIR	L-Glutamine, aloe vera, liquorice, marshmallow root, okra, quercetin, slippery elm, zinc camosine, Saccaromyces boulardii, omega 3 essential fatty acids, B vitamins
REPA		SUPPORT CONSIDERATION	Seep, diet, exercise, and stressmanagement