

-. SHELLEY EGGINS **ELLO HEALTH ONLINE CLINIC 4225**

NERISSA REYNOLDS Female 05-Apr-1980

162 HULLS ROAD **CRABBES CREEK NSW 2483**

LAB ID: 3904858 UR NO.: 6200431 Collection Date: 11-Jul-2023 **Received Date:** 13-Jul-2023



COMPLETE MICROBIOME MAPPING

General Macroscopic Description

Result Markers

Colour -Brown is the colour of normal stool. Other colours may **Brown** Stool Colour

indicate abnormal gut health.

Form -Sample form is categorised using the Bristol stool chart. A Stool Form Semi-formed

comment on stool appearance can be found in the comments section.

Not Detected Mucous - Mucous production may indicate the presence of an Mucous

infection and/or inflammation.

Blood (Macro)- The presence of blood in the stool may be the result Occult Blood **Negative**

of several causes besides colorectal bleeding, including

hemorrhoids or gastrointestinal infection.

Short Chain Fatty Acids	Result	Range	Units	
Short Chain Fatty Acids, Beneficial	30.5	> 13.6	umol/g	•
Butyrate	12.2	10.8 - 33.5	%	• 100
Acetate	70.8	44.5 - 72.4	%	
Propionate	15.0	0.0 - 32.0	%	
Valerate	2.0	0.5 - 7.0	%	•
GIT Functional Markers	Result	Range	Units	

GIT Functional Markers	Result	Range	Units	
Calprotectin.	<5.0	0.0 - 50.0	ug/g	
Pancreatic Elastase	>500.0	> 200.0	ug/g	
Secretory (slgA)	697.9	510.0 - 2040.	0 ng/mL	•
Zonulin	82.6	0.0 - 107.0	ng/mL	•
Beta glucuronidase	678.3	368.0 - 6266.	0 U/g	•
Steatocrit	8.0	0.0 - 15.0	%	•
a-Transglutaminase IgA	<20	0.0 - 100.0	units/L	

Microbiome Mapping Summary

Parasites & Worms

Dientamoeba fragilis.

Bacteria & Viruses

Pseudomonas aeruginosa. Citrobacter freundii.

Fungi and Yeasts

Key Phyla Microbiota

Firmicutes:Bacteroidetes Ratio

0.38 < 1.00 RATIO

Relative Commensal Abundance of the 6 Phyla groups can be found on page 4 of this report



NOTE: Reflex testing is performed on clinically indicated samples

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Parasites and Worms.	Result	Range	Units		
Parasitic Organisms					
Cryptosporidium species	<dl< td=""><td>< 1.0</td><td>x10^6 org/g</td><td></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><td></td></dl<>	< 1.0	x10^4 org/g		
Giardia intestinalis	<dl< td=""><td>< 1.0</td><td>x10^3 org/g</td><td></td><td></td></dl<>	< 1.0	x10^3 org/g		
Blastocystis hominis.	<dl< td=""><td>< 1.0</td><td>x10^3 org/g</td><td></td><td></td></dl<>	< 1.0	x10^3 org/g		
Dientamoeba fragilis.	<i>53.6</i> *H	< 1.0	x10^5 org/g		
Endolimax nana	<dl< td=""><td>< 1.0</td><td>x10^4 org/g</td><td></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><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><td></td></dl<>	< 1.0	x10^2 org/g		
Worms					
Ascaris lumbricoides, Roundworm	Not Detec	cted	Necator americanus, Hookworm		Not Detected
Trichuris trichiura, Whipworm	Not Detected		Enterobius vermicularis, Pinworm		Not Detected
Enterocytozoon spp	Not Detected		Hymenolepi	s spp, Tapeworm	Not Detected
Strongyloides spp, Roundworm	Not Detected		Taenia species, Tapeworm		Not Detected

portunistic Bacteria/Overgro	owth Result	Range	Units
Bacillus species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Enterococcus faecalis	0.80	< 1.00	x10^4 CFU/g
Enterococcus faecium	0.66	< 1.00	x10^4 CFU/g
Morganella species	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Pseudomonas species	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td></dl<>	< 1.00	x10^4 CFU/g
Pseudomonas aeruginosa.	<i>110.41</i> *H	< 3.00	x10^2 CFU/g
Staphylococcus species	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td></dl<>	< 1.00	x10^4 CFU/g
Staphylococcus aureus	<dl< th=""><td>< 5.00</td><td>x10^2 CFU/g</td></dl<>	< 5.00	x10^2 CFU/g
Streptococcus species	2.77	< 3.00	x10^3 CFU/g
Methanobrevibacter smithii	0.86	< 3.50	x10^9 CFU/g
Desulfovibrio piger	<dl< th=""><td>< 18.00</td><td>x10^7 CFU/g</td></dl<>	< 18.00	x10^7 CFU/g
Enterobacter complex.	<dl< th=""><td>< 5.00</td><td>x10^6 CFU/g</td></dl<>	< 5.00	x10^6 CFU/g
otential Autoimmune Triggers			
Citrobacter species.	<dl< th=""><td>< 5.00</td><td>x10^5 CFU/g</td></dl<>	< 5.00	x10^5 CFU/g
Citrobacter freundii.	<i>25.26</i> *H		x10^5 CFU/g
Klebsiella species	<dl< th=""><td>< 5.00</td><td>x10^3 CFU/g</td></dl<>	< 5.00	x10^3 CFU/g
Klebsiella pneumoniae.	<dl< th=""><td>< 5.00</td><td>x10^4 CFU/g</td></dl<>	< 5.00	x10^4 CFU/g
Prevotella copri	<dl< th=""><td>< 1.00</td><td>x10^7 CFU/g</td></dl<>	< 1.00	x10^7 CFU/g
Proteus species	<dl< th=""><td>< 5.00</td><td>x10^4 CFU/g</td></dl<>	< 5.00	x10^4 CFU/g
Proteus mirabilis.	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Fusobacterium species	0.48	< 10.00	x10^7 CFU/g
ngi & Yeast	Result	Range	Units
Candida species.	<dl< th=""><td>< 5.00</td><td>x10^3 CFU/g</td></dl<>	< 5.00	x10^3 CFU/g
Candida albicans.	<dl< th=""><td>< 5.00</td><td>x10^2 CFU/g</td></dl<>	< 5.00	x10^2 CFU/g
Geotrichum species.	<dl< th=""><td>< 3.00</td><td>x10^2 CFU/g</td></dl<>	< 3.00	x10^2 CFU/g
Saccharomyces cerevisiae.	<dl< th=""><td>< 3.00</td><td>x10^3 CFU/g</td></dl<>	< 3.00	x10^3 CFU/g
Rhodotorula species.	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g



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Bacterial Pathogens	Result	Range	Units
Aeromonas hydrophila.	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Campylobacter species.	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
C. difficile, Toxin A	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
C. difficile, Toxin B	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Enterohemorrhagic E. coli	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Enteroinvasive E. coli/Shigella	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Enterotoxigenic E. coli LT/ST	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Shiga-like Toxin E. coli stx1	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Shiga-like Toxin E. coli stx2	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Salmonella species.	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td></dl<>	< 1.00	x10^4 CFU/g
Vibrio species.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td></dl<>	< 1.00	x10^5 CFU/g
Yersinia species.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td></dl<>	< 1.00	x10^5 CFU/g
Helicobacter pylori	<dl< th=""><td>< 1.0</td><td>x10^3 CFU/g</td></dl<>	< 1.0	x10^3 CFU/g

Comment: Helico Pylori virulence factors will be listed below if detected POSITIVE

H.pylori Virulence Factor, babA	Not Detected	H.pylori Virulence Factor, cagA	Not Detected
H.pylori Virulence Factor, dupA	Not Detected	H.pylori Virulence Factor, iceA	Not Detected
H.pylori Virulence Factor, oipA	Not Detected	H.pylori Virulence Factor, vacA	Not Detected
H.pylori Virulence Factor, virB	Not Detected	H.pylori Virulence Factor, virD	Not Detected

Units

Viral Pathogens	Result Range				
Adenovirus 40/41	Not Detected				
Norovirus GI/II	Not Detected				
Rotavirus A	Not Detected				
Sapovirus (I,II,IV,V)	Not Detected				
Astrovirus (hAstro)	Not Detected				

Normal Bacterial GUT Flora	Result	Range	Units	
Bacteroides fragilis	1.7	1.6 - 250.0	x10^9 CFU/g	•
Bifidobacterium species	<i>3.0</i> *L	> 6.7	x10^7 CFU/g	
Bifidobacterium longum	2.3 *L	> 5.2	x10^6 CFU/g	
Enterococcus species	1544.0	1.9 - 2000.0	x10^5 CFU/g	
Escherichia species	1211.0	3.7 - 3800.0	x10^6 CFU/g	
Lactobacillus species	329.6	8.6 - 6200.0	x10^5 CFU/g	•
Lactobacillus Rhamnosus	15.0	8.3 - 885.0	x10^4 CFU/g	•
Clostridium species	16.2	5.0 - 50.0	x10^6 CFU/g	
Oxalobacter formigenes	26.36	> 15.00	x10^7 CFU/g	
Akkermansia muciniphila	4.10	1.00 - 50.00	x10^3 CFU/g	
Faecalibacterium prausnitzii	257.2	200.0 - 3500.	0 x10^3 CFU/g	•

Methodology:

GIT Functional markers performed by GCMS,EIA,FEIA.

Bacteriology, Virology, Fungi, Parasites & Worms performed by PCR, qPCR.

<dl = result below detectable limit. *H = Result greater than the reference range. *L = Result less than the reference range



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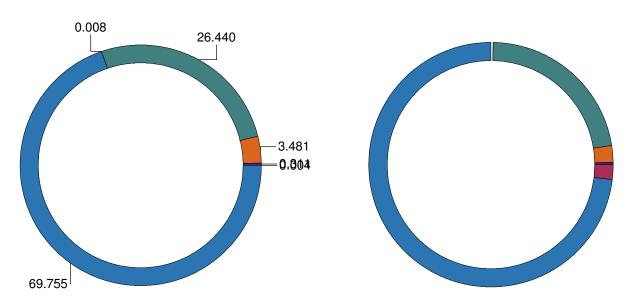
Introduction:

Your gut microbiome is a collective name for the 40 trillion cells and up to 1000 microbial species that include bacteria, viruses, fungi, parasites, and archaea and reside in our gut. The number of gut bacterial cells is approximately equal to the total number of human cells in our body, so if we consider only cell counts, we are only about half human. In terms of gene counts, the microbiome contains about 200 times more genes than the human genome, making bacterial genes responsible for over 99% of our body's gene content! Of all the microbial communities in the human body, the gut microbiome is by far the most dense, diverse, and physiologically important ecosystem to our overall health.

Relative Commensal Abundance Res	sult	Range	Units
Bacteroidetes Phylum 69.79	'55	50.000 - 95.000	%
Firmicutes Phylum 26.44	40	3.500 - 40.000	%
Proteobacteria Phylum 3.4	81	0.500 - 12.500	%
Verrucomicrobia Phylum 0.3	311	0.000 - 2.400	%
Euryarchaeota Phylum 0.00	80	0.000 - 0.017	%
Actinobacteria Phylum 0.00	04	0.001 - 4.818	%

Your Phyla:

Healthy Phyla:



References

NOTE: Relative abundance reference ranges have been based on a healthy population study.

King CH, et., al. (2019) Baseline human gut microbiota profile in healthy people and standard reporting template. PLoS One. 2019 Sep 11;14(9):e0206484.



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Pathogen Summary:

Macroscopy Comment

BROWN coloured stool is considered normal in appearance.

Faecal Occult Blood Negative:

Faecal occult blood has not been detected in this specimen. If the test result is negative and clinical symptoms persist, additional follow-up testing using other clinical methods is recommended.

Metabolism Comment

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

The primary SCFAs butyrate, propionate and acetate are produced by predominant commensal bacteria via fermentation of soluble dietary fibre and intestinal mucus glycans.

Key producers of SCFAs include Faecalibacterium prausnitzii, Akkermansia mucinphila, Bacteroides fragilis, Bifidobacterium, Clostridium and Lactobacillus Spp.

The SCFAs provide energy for intestinal cells and regulate the actions of specialised mucosal cells that produce anti-inflammatory and antimicrobial factors, mucins that constitute the mucus barriers, and gut active peptides that facilitate appetite regulation and euglycemia. Abnormal SCFAs may be associated with dysbiosis, intestinal barrier dysfunction and inflammatory conditions.

BACTERIA BUTYRATE PROPRIONATE ACETATE Akkermansia muciniphilia Anaerastipes caccae Bacteroides spp. Bilidobacterium spp. AAAA Bilidobacterium spp. AAAA Caprococcus eutactus AAA Escherichia coli Eubacterium rectale AAA Raseburia homini AAA Ruminococcus bromii AAA Subdoligranulum variabile AAA Subdoligranulum variabile

GIT Markers Comment

PANCREATIC ELASTASE: Normal exocrine pancreatic function.

Pancreatic Elastase reflects trypsin, chymotrypsin, amylase and lipase activity.

This test is not affected by supplements of pancreatic enzymes.

Healthy individuals should be producing >500 ug/g of PE-1 under normal/healthy conditions.

PE-1 levels between 200 - 500 ug/g may indicate suboptimal production.

PE-1 levels <200 ug/g indicate clear inadequate production.

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. In patients with strong clinical indications



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of intestinal inflammation, repeat testing may be useful.

Test performed by Phadia EliA Fluorescence enzyme immunoassay (FEIA).

SECRETORY IGA NORMAL:

Secretory IgA is within range.

Secretory IgA represents the first line of defence of the gastrointestinal mucosa and is central to the normal function of the gastrointestinal tract as an immune barrier. Review this level with other pathogenic bacteria and normal commensal flora. Lower levels within reference range should be interpreted clinically.

ZONULIN HIGH NORMAL:

Zonulin is a protein that modulates intestinal barrier function and can also be considered as a potential inflammatory marker. Although this result is within range, the result should be interpreted with patient clinical symptoms as well as reviewing the presence of other proteobacteria that may be the result of increased Zonulin.

beta-GLUCORONIDASE NORMAL:

B-Glucuronidase is considered normal and is within reference range.

Parasites/Worms Comment

ELEVATED DIENTAMOEBA FRAGILIS LEVEL:

Dientamoeba fragilis appears to be extremely common and may have a cosmopolitan distribution, although there are large variations in prevalence. Dientamoeba fragilis has been linked to intestinal symptoms, especially in children. The most common symptoms associated with this organism are abdominal pain, intermittent diarrhoea, bloating and anorexia.

TREATMENT SUGGESTIONS:

Mild symptoms are self-limiting.

If treatment is warranted, metronidazole for 10 days or a single 2g dose of Tinidazole may be used. Tetracycline has also proven effective in adults.

Rule out allergy to above medication before prescribing/taking. Consult ID specialist if patient is showing severe symptoms or immunocompromised.

Opportunistic Bacteria Comment

PSEUDOMONAS AERUGINOSA ELEVATED:

PHYLUM: Proteobacteria

DESCRIPTION:

Pseudomonas aeruginosa is a gram-negative, aerobic, non-spore forming bacteria that can cause a variety of infections in both immunocompetent and immunocompromised hosts. It is commonly found in the environment, particularly in freshwater, hot tubs, and swimming pools. Chronic gastrointestinal colonization is acknowledged to be an important component of P. aeruginosa diarrheal disease and systemic infections. Since disruption of the normal flora by antibiotics can reduce colonization resistance and promote pathologic colonization with P. aeruginosa, enterocolitis due to P. aeruginosa may also be considered to be an antibiotic-associated gastroenteritis.

Pseudomonas aeruginosa in the gastrointestinal tract can cause inflammation, epithelial barrier dysfunction, tight cell junction interruption, and intestinal permeability.

If treatment is warranted, Pseudomonas is usually susceptible to antipseudomonal penicillins, aminoglycosides, carbapenems, 3rd generation cephalosporins and gentamycin. Plant-derived anti-biofilm products identified against P. aeruginosa include alkaloids, organosulfur compounds, flavonoids, phenolic compounds and terpenoids. Rule out allergy to above medication before prescribing/taking.



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Potential Autoimmune Comments

CITROBACTER FREUNDII ELEVATED:

PHYLUM: Proteobacteria

DESCRIPTION:

Citrobacter freundii is a species of facultative anaerobic Gram-negative predominantly soil-dwelling bacteria, but can also be found in water, sewage, food, and the intestinal tract. Citrobacter freundii is an emerging opportunistic pathogen and elevation may be a cause of nosocomial infections, diarrheal infections and has increasingly become multidrug resistant (MDR).

TREATMENT SUGGESTIONS:

A practitioner may take into consideration a range of patient factors and symptoms to determine if treatment is necessary. Citrobacter freundii infection is usually treated with antibiotics like fluoroquinolones, carbapenems and cephalosporins. The treatment plan depends up on the vulnerability of the microbe to the antibiotics and the degree of infection. Treatments may also include herbal antimicrobials and/or probiotics. Rule out allergy to above medication before prescribing/taking.

Normal Bacterial Flora Comment

BIFIDOBACTERIUM SPECIES LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium is a genus of gram-positive, nonmotile anaerobic bacteria that are ubiquitous inhabitants of the gastrointestinal tract and considered a probiotic. Bifidobacterium species prevent diarrhea and intestinal infections, alleviate constipation, and stimulate the immune system. Low levels may be associated with irritable bowel syndrome, asthma, autism, depressive disorder and with pathogenic bacterial infection.

TREATMENT SUGGESTIONS: Treatment may involve the use of Bifidobacterium containing probiotics and treatment of any intestinal infection.

BIFIDOBACTERIUM LONGUM LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium longum is a Gram-positive, catalase-negative, rod-shaped bacterium present in the human gastrointestinal tract and one of the Bifidobacterium species. It can induce and regulate immune responses, reduce the expression of inflammatory cytokines, and maintain the normal intestinal barrier function.

Bifidobacterium longum is a clinically effective, well-established, multifunctional probiotic that has a long history of human use in alleviating gastrointestinal, immunological, and infectious diseases such as constipation, antibiotic associated diarrhoea, irritable bowel syndrome and ulcerative colitis. Low levels may be associated with irritable bowel syndrome, asthma, autism, depressive disorder and with pathogenic bacteria infection.

TREATMENT SUGGESTIONS: Treatment may involve the use of Bifidobacterium longum containing probiotics and treatment of any intestinal infections.

LACTOBACILLUS SPECIES LOW NORMAL:

PHYLUM: Firmicutes

DESCRIPTION:

Lactobacillus species is below average.

Lactobacillus is a genus of Gram-positive rod-shaped, non-spore-forming bacteria which constitute a significantly important component of the human gastrointestinal system.

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. Lactobacilli are among the most common probiotic found in food such as yogurt, and it is diverse in its application to maintain gut health and to help treat ailments clinically such as diarrhea and obesity.

Lactobacillus species promote the anti-inflammatory response, thereby supporting the improvement of symptoms pertaining to



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asthma, chronic obstructive pulmonary disease, neuroinflammatory diseases, cardiovascular diseases, inflammatory bowel disease (IBD) and chronic infections in patients. Reduced levels increase the risk of infections and inflammation. Studies have also revealed that chronic psychological stress and alcohol use may be associated with a decrease in Lactobacillus species, as well as antibiotic / medication use.

TREATMENT SUGGESTIONS: Treatment may involve the use of Lactobacillus containing probiotics and treatment of any intestinal infections.



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The Four "R" Treatment Protocol

	Using a course of antimic robial, antibacterial,	ANTIMICROBIAL	Oil of oregano, berberine, caprylic acid
	antiviral or anti parasitic therapies in cases where	ANTIBAC TERIAL	Liquorice, zinc carnosine, mastic gum, tribulus, berberine, black walnut, caprylic acid, oil of oregano
REMOVE	also be necessary to remove offending foods, gluten, or	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
		BIOFILM	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
ш	Pecolonisation 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
REINOCULATE		PROBIOTICS	Bifidobacterium animalissup lactise, lactobacillus acidophilus, lactobacillus plantarum, lactobacillus casei, bifidobacterium breve, bifidobacterium bifidum, bifidobacterium longum, lactobacillus salivarius sep salivarius, lactobacillus paracasei, lactobacillus rhamnosus, Saccaromyces boulardii
ANCE	<u> </u>	INTESTINAL MUCOSA IMMUNE SUPPORT	Saccaromyces boulardii, lauric acid
₩ 8		INTESTINAL BARRIER REPAIR	L-Glutamine, a loe vera, liquorice, marshmallow root, okra, quercetin, slippery elm, zinc camosine, Saccaromyces boulardii, omega 3 essential fatty acids, B vitamins
REPAIR		SUPPORT CONSIDERATION	Seep, diet, exercise, and stress management