Sova

GUT HEALTH REPORT

INDIA'S MOST ADVANCED
GUT MICROBIOME TEST

TEST REPORT & DIETARY RECOMMENDATIONS

Join us in shifting from SickCare to HealthCare!

Sova is on a mission to enhance lives through Microbiome Health. Led by Clinical Nutritionists, Scientists and Gut Health Experts, we harness the power of microbes to help you prevent and manage conditions linked to Gut, Skin, Oral Health, Metabolic Health & more.

This Report has been Researched & Developed by:

Sova x LEUCINERICHBIO™ enriching biology

What we do once we get your sample?

Sample QC

Yoursample is checked for leakages

Microbiome Sequencing

MicrobialDNAis extracted and sequenced

Data Analysis

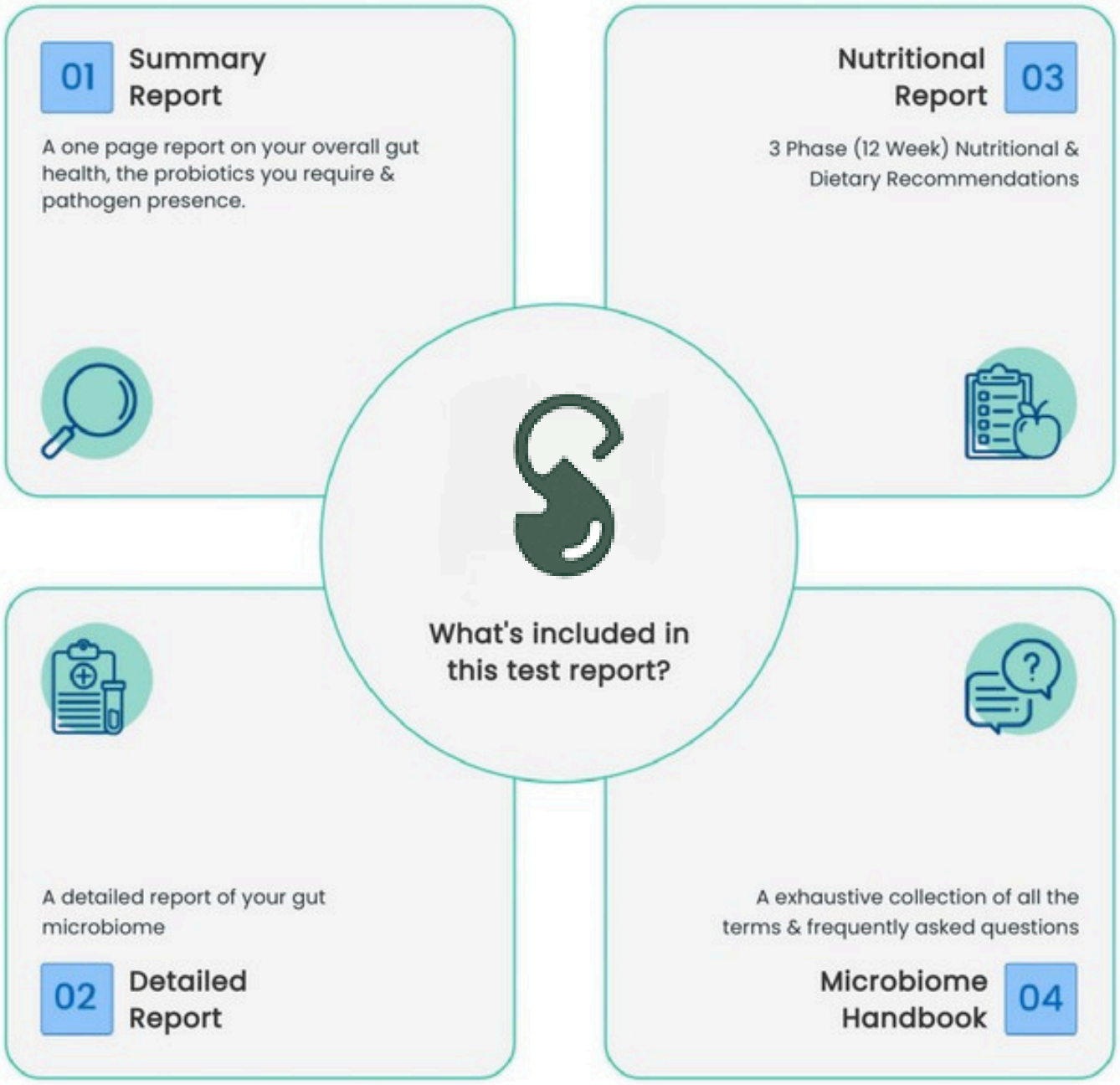
The microbiome data is analysed & the report is generated

Report QC

A multi-stepprocess of report checking is performed

Summary Report

This is your BugSpeaks® Gut Microbiome Summary Report. With this report, our endeavour is to provide key insights, with the hope that it will guide you to better understand your health and make necessary changes to your lifestyle to lead a healthier life. You can always refer our complete Scientific Report for a more detailed evidence-based interpretation of your gut microbiome data. We have categorized the report into following sections:



Please Note:

1. This is not a diagnostic report and should be interpreted or used exclusively by or under the guidance of a practitioner, including but not limited to, certified physicians, clinicians, dietitians, nutritionists, sports therapists, and such other persons in similar profession having appropriate validation to undertake such practice. (Please See Disclaimers).

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Summary Report

One page report on your overall gut health, the probiotics you require & pathogen presence

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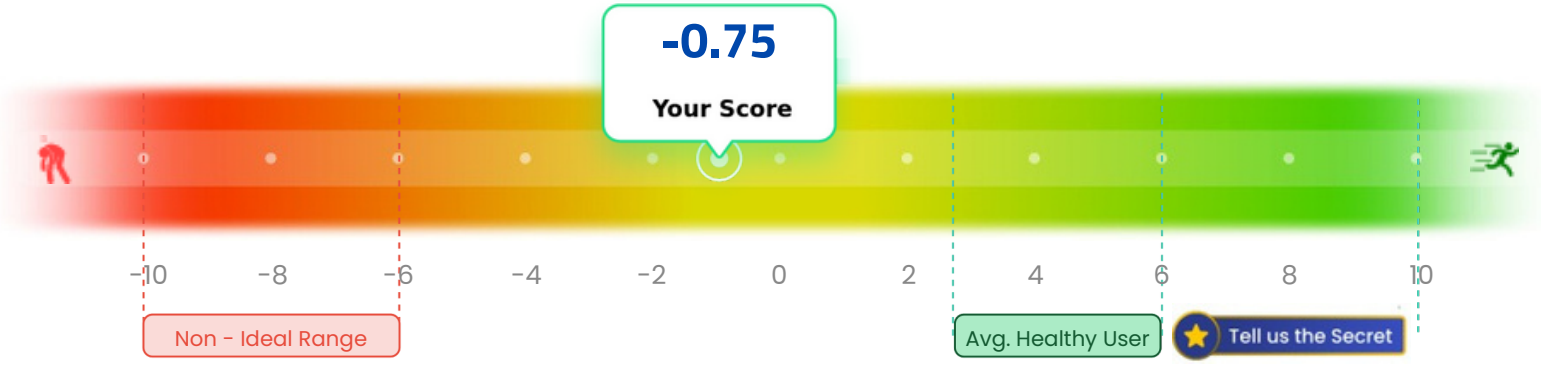
Rych Index - Your Gut Health Score

Scores in the Green Range represents a Healthy Gut and in the Red Range represents an Unhealthy Gut. Know More about "Rych Index" within the FAQ Section.



Probiotics - The Good Microbes

You may require supplements that contain these probiotics. For more details please read the detailed report.

Supplementation Needed

- Bifidobacterium infantis
- Lactiplantibacillus plantarum
- Limosilactobacillus reuteri
- Lacticaseibacillus casei
- Levilactobacillus brevis
- Lactobacillus johnsonii
- Bacillus coagulans
- Limosilactobacillus fermentum
- Lactobacillus caucasicus
- Bifidobacterium bifidum
- Saccharomyces boulardii
- Saccharomyces cerevisiae
- Lactobacillus gasseri
- Lacticaseibacillus paracasei
- Bacillus clausii
- Bacillus subtilis
- Bacillus indicus
- Lactobacillus gallinarum
- Lactobacillus amylovorus

Pathogen-TheBadMicrobes

The following “pathogens” abundance was found to be more than the average healthy individuals. Please correlate clinically and follow recommendations. For more details please read the detailed report.

Follow Nutrition Guidelines

- Blastocystis hominis

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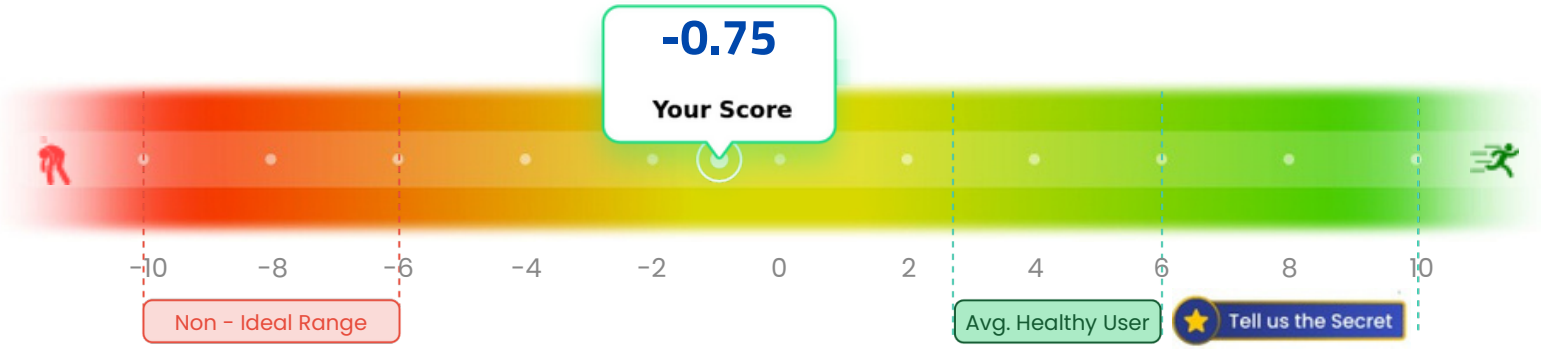
Detailed Report

A detailed report of your gut microbiome

Powered by BugSpeaks®

Rych Index - Your Gut Health Score

Rych Index isa proprietary algorithm based output thattendsto indicatethe overall gut health with respect to the microbiota profile. Various parameters such as abundance, diversity and richness have been used to come up with the Rych Index score. Know more about the 'Rych Index'in theFAQ section (Microbiome handbook section).



Pictorial graph representation of various components of your microbiome. Green colour represents healthy / good / favorable,red colourrepresents unhealthy / bad / unfavorable.

Category Tag

BugSpeaks Diversity	Average
Kingdom Distribution	Non-Ideal
Probiotic Characterization	Non-Ideal
Pathogen Characterization	Average
Antibiotic Resistance	Ideal
Antibiotic Recovery Potential	Ideal
SCFA Production	Non-Ideal
Vitamin Production	Non-Ideal
Neurotransmitters	Non-Ideal
Propensity to Disease Development	Below Average

Bugspeaks Diversity

Category Tag	Average

This is a proprietary diversity score developed by us taking into consideration individual kingdom diversities and internal data analysis of healthy and unhealthy.

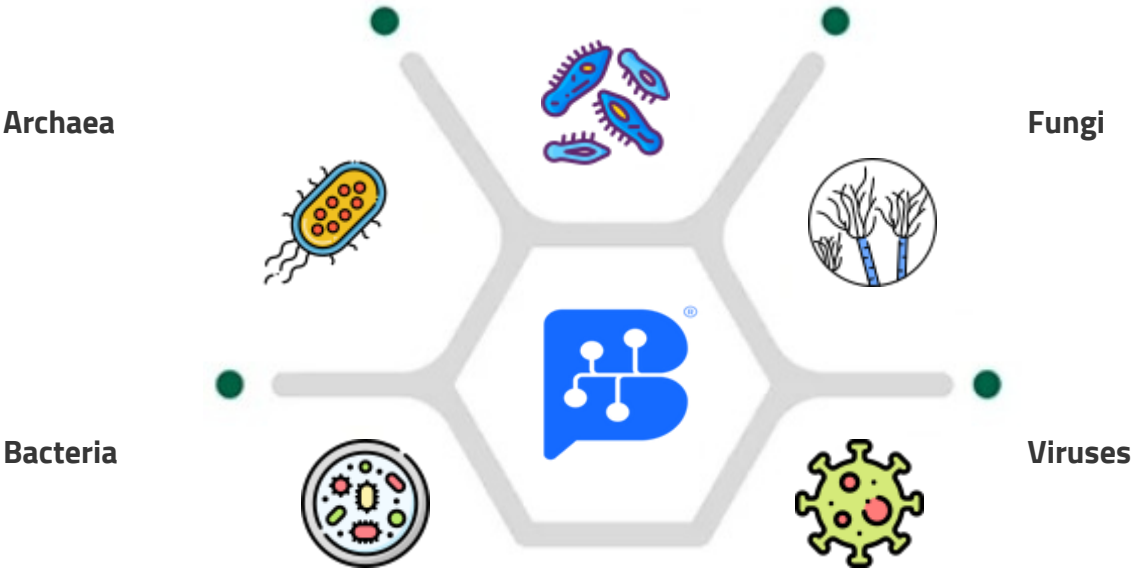
Kingdom Distribution

Category Tag	Non-Ideal

Composition of gut microbiome is defined by 4 major groups of microorganisms - Bacteria, Archaea, Virus and Eukaryota (Fungi, Protozoa and Metazoa). Below is a representation highlighting these 4 groups, its corresponding abundance and what it means to you, in context of gut microbiome.

Kingdom Distribution	Range(%)	Your Sample Value	Tag
Bacteria	97.94% - 99.07%	99.685%	Atypical
Fungi	0.36% - 0.86%	0.135%	Atypical
Metazoa & Protozoa	0.21% - 0.51%	0.068%	Atypical
Archaea	0.11% - 0.28%	0.034%	Atypical
Viruses	0.25% - 1.06%	0.079%	Atypical

Metazoa & Protozoa



Top Abundant Species

Top abundant species of Bacteria in your sample			
Prevotella copri	35.491 %	Clostridium sp. AF34-10BH	1.475 %
Waltera intestinalis	8.31 %	Bacteroides uniformis	1.216 %
Phocaeicola vulgatus	6.17 %	Phocaeicola plebeius	1.149 %
Phocaeicola dorei	2.714 %	Phocaeicola sartorii	1.092 %
Faecalibacterium prausnitzii	1.88 %	Bacteroides caccae	0.98 %
Top abundant species of Archaea in your sample			
Haloterrigena sp. SYSU A558-1	0.011 %		
Methanobrevibacter smithii	0.011 %		
Methanosarcina sp. MSH10X1	0.011 %		
Top abundant species of Eukaryota in your sample			
Blastocystis hominis	0.011 %	Tetrahymena thermophila	0.011 %
Blastocystis sp.subtype 4	0.011 %		
Ichthyophthirius multifiliis	0.011 %		
Plasmodium gallinaceum	0.011 %		
Plasmodium malariae	0.011 %		
Top abundant species of Viruses in your sample			
crAssphage cr131_1	0.023 %	Carltongylesvirus ST32	0.011 %
crAssphage cr53_1	0.011 %		
crAssphage cr7_1	0.011 %		
uncultured crAssphage	0.011 %		
crAssphage cr8_1	0.011 %		
Top abundant species of Fungi in your sample			
Botrytis sinoallii	0.023 %	Hirsutella rhossiliensis	0.011 %
Rhizophagus irregularis	0.023 %	Lachancea lanzarotensis	0.011 %
Aspergillus heteromorphus	0.011 %	Lindgomyces ingoldianus	0.011 %
Aspergillus ibericus	0.011 %	Malassezia globosa	0.011 %
Colletotrichum graminicola	0.011 %	Schizophyllum commune	0.011 %

Please Note: All values are % relative abundances.

Probiotic Characterization

Category Tag Non-Ideal

BugSpeaks® identifies and characterizes many probiotics commonly known to be present and beneficial to gut health. These probiotics are reportedwith "indicative tags", which can be interpreted as described below.

Supplementation Needed - These probiotics were found either absent or very less in abundance in your sample.

Follow Recommendation - These probiotics were found to be present but less abundant.

Follow your current diet - These probiotics were present in adequate abundance in your sample.

Supplementation Needed

- Bifidobacterium infantis
- Lactiplantibacillus plantarum
- Limosilactobacillus reuteri
- Lacticaseibacillus casei
- Levilactobacillus brevis
- Lactobacillus johnsonii
- Bacillus coagulans
- Limosilactobacillus fermentum
- Lactobacillus caucasicus
- Bifidobacterium bifidum
- Saccharomyces boulardii
- Saccharomyces cerevisiae
- Lactobacillus gasseri
- Lacticaseibacillus paracasei
- Bacillus clausii
- Bacillus subtilis
- Bacillus indicus
- Lactobacillus delbrueckii
- Lactobacillus bulgaricus
- Bifidobacterium animalis
- Bifidobacterium lactis
- Lactobacillus amylovorus
- Lactobacillus gallinarum

Follow Recommendations

- Lactobacillus acidophilus
- Lacticaseibacillus rhamnosus
- Bifidobacterium breve
- Streptococcus thermophilus
- Bifidobacterium longum

Follow your Current Diet

- Lactobacillus lactis
- Ligilactobacillus salivarius
- Lactobacillus helveticus

Probiotic Characterization

Lactobacillus Probiotic

Probiotic Species	Reference Range*	1st Test, November 10, 2025	2nd Test, March 10, 2026	3rd Test, July 10, 2026	
Lactobacillus amylovorus	0.010% - 0.015%	0.0%			
Lactobacillus gallinarum	0.010% - 0.015%	0.0%			
Lactiplantibacillus plantarum	0.010% - 0.015%	0.0%			
Limosilactobacillus reuteri	0.010% - 0.020%	0.0%			
Lacticaseibacillus casei	0.010% - 0.015%	0.0%			
Levilactobacillus brevis	0.010% - 0.015%	0.0%			
Lactobacillus johnsonii	0.010% - 0.015%	0.0%			
Limosilactobacillus fermentum	0.010% - 0.020%	0.0%			
Lactobacillus caucasicus	0.003% - 0.006%	0.0%			
Lactobacillus gasseri	0.010% - 0.015%	0.0%			
Lacticaseibacillus paracasei	0.010% - 0.015%	0.0%			
Lactobacillus delbrueckii	0.010% - 0.015%	0.0%			
Lactobacillus bulgaricus	0.010% - 0.015%	0.0%			
Lactobacillus acidophilus	0.010% - 0.015%	0.011%			
Lacticaseibacillus rhamnosus	0.050% - 0.100%	0.056%			
Lactobacillus lactis	0.010% - 0.015%	0.023%			
Ligilactobacillus salivarius	0.005% - 0.011%	0.011%			
Lactobacillus helveticus	0.010% - 0.015%	0.023%			

Please Note: * The Reference Range is the % relative abundance range from a healthy cohort.

Bifidobacterium Probiotic

Probiotic Species	Reference Range*	1st Test, November 10, 2025	2nd Test, March 10, 2026	3rd Test, July 10, 2026	
Bifidobacterium infantis	0.010% - 0.015%	0.0%			
Bifidobacterium bifidum	0.010% - 0.020%	0.0%			
Bifidobacterium animalis	0.010% - 0.030%	0.0%			
Bifidobacterium lactis	0.010% - 0.030%	0.0%			
Bifidobacterium breve	0.030% - 0.050%	0.011%			
Bifidobacterium longum	1.140% - 3.740%	0.045%			

Bacillus Probiotic

Probiotic Species	Reference Range*	1st Test, November 10, 2025	2nd Test, March 10, 2026	3rd Test, July 10, 2026	
Bacillus coagulans	0.010% - 0.015%	0.0%			
Bacillus clausii	0.002% - 0.005%	0.0%			
Bacillus subtilis	0.016% - 0.054%	0.0%			
Bacillus indicus	0.010% - 0.015%	0.0%			

Other Probiotic

Probiotic Species	Reference Range*	1st Test, November 10, 2025	2nd Test, March 10, 2026	3rd Test, July 10, 2026	
Saccharomyces boulardii	0.010% - 0.015%	0.0%			
Saccharomyces cerevisiae	0.010% - 0.015%	0.0%			
Streptococcus thermophilus	0.026% - 0.051%	0.011%			

Pathogen Characterization

Category Tag Average

BugSpeaks® identifies and characterizes many pathogens commonly known to cause gut infections and other health issues. These pathogens are reported with "indicative tags", which can be interpreted as described below.
This is not a diagnostic and are not correlated clinically with cfu/ug. Know More about "Pathogen Characterization" within the FAQ Section.

Nothing to Worry Please follow recommendations and if any symptoms present then correlate clinically and consult a doctor.

Species	Species
Bacterial Pathogens / Primary Pathogens	**Opportunistic Bacteria**
Campylobacter jejuni	Bacillus cereus
Clostridioides difficile	Enterococcus faecalis
Escherichia coli	Enterococcus faecium
Helicobacter pylori	Listeria monocytogenes
Salmonella enterica	Pseudomonas aeruginosa
Shigella dysenteriae	Staphylococcus aureus
Vibrio cholerae	Staphylococcus epidermidis
Yersinia enterocolitica	Staphylococcus saprophyticus
Potential Autoimmune Triggers	Streptococcus agalactiae
Klebsiella pneumoniae	Streptococcus pneumoniae
Mycobacterium avium	**Worms**
Proteus mirabilis	Giardia intestinalis
Citrobacter freundii	Necator americanus
Fusobacterium nucleatum	Trichuris trichiura
	Ancylostoma duodenale
	Ascaris lumbricoides

Species	Species
Protozoa	**Fungi / Yeast**
Blastocystis hominis	Candida albicans
Chilomastix mesnili	Candida glabrata
Cryptosporidium	Candida tropicalis
Dientamoeba fragilis	Candida parapsilosis
Endolimax nana	Candida krusei
Entamoeba coli	Aspergillus fumigatus
Entamoeba histolytica	Aspergillus flavus
Pentatrichomonas hominis	Aspergillus niger
Dysbiotic / Overgrowth Bacteria	Aspergillus terreus
Citrobacter freundii	Aspergillus nidulans

Disclaimer:

1. This is not a diagnostic report. This is not a microbiology (culture based) report. 2. We quantify these pathogens using sequencing-based method, and hence represent quantity only as "% abundances" of these pathogens. Also, the "indicative tags" does not represent standard scientific notation such as colony forming units per gram of stool (CFU/g). 3. Please correlate clinically.

Antibiotic Resistance

Category Tag Ideal

Some bacteria are known to possess genes that can lead to resistance to antibiotics. Our algorithm based output provides information on possible antibiotic resistance based on the genomic analysis of the sample. This is not a microbiological assay based output and hence clinical validation is necessary.

Antibiotic Name			
Amikacin	Susceptible	Ceftriaxone	Susceptible
Aminocoumarin	Susceptible	Cephalothin	Susceptible
Amoxicillin	Susceptible	Cephamycin	Susceptible
Amoxicillin+Clavulanic_Acid	Susceptible	Ciprofloxacin	Susceptible
Ampicillin	Susceptible	Clindamycin	Susceptible
Ampicillin+Clavulanic_Acid	Susceptible	Colistin	Susceptible
Avilamycin	Susceptible	Dalfopristin	Susceptible
Azithromycin	Susceptible	Diaminopyrimidine	Susceptible
Aztreonam	Susceptible	Doxycycline	Susceptible
Benzalkonium_Chloride	Susceptible	Elfamycin	Susceptible
Bicyclomycin	Susceptible	Ertapenem	Susceptible
Bleomycin	Susceptible	Erythromycin	Susceptible
Carbapenem	Susceptible	Florfenicol	Susceptible
Carbomycin	Susceptible	Fosfomycin	Susceptible
Cefepime	Susceptible	Fusidic_Acid	Susceptible
Cefixime	Susceptible	Gentamicin	Susceptible
Cefotaxime	Susceptible	Glycylcycline	Susceptible
Cefotaxime+Clavulanic_Acid	Susceptible	Hygromycin	Susceptible
Cefoxitin	Susceptible	Imipenem	Susceptible
Ceftazidime	Susceptible	Isoniazid	Susceptible
Ceftazidime+Avibactam	Susceptible	Kanamycin	Susceptible

Antibiotic Name		Antibiotic Name	
Kasugamycin	Susceptible	Spectinomycin	Susceptible
Lincomycin Lincosamide	Susceptible	Spiramycin	Susceptible
Linezolid Meropenem	Susceptible	Streptomycin	Susceptible
Methicillin Minocycline	Susceptible	Streptothricin	Susceptible
Monobactam Mupirocin	Susceptible	Sulfamethoxazole	Susceptible
Nalidixic_Acid Nitrofuran	Susceptible	Teicoplanin	Susceptible
Nitroimidazole	Susceptible	Telithromycin	Susceptible
Oleandomycin Penicillin	Resistant	Temocillin	Susceptible
Phenicol Piperacillin	Susceptible	Tetracenomycin	Susceptible
Piperacillin+Tazobactam	Susceptible	Tetracycline	Susceptible
Pleuromutilin	Susceptible	Thiostrepton	Susceptible
Pristinamycin_Ia	Susceptible	Tiamulin	Susceptible
Pristinamycin_Iia	Susceptible	Ticarcillin	Susceptible
Quinupristin	Susceptible	Ticarcillin+Clavulanic_Acid	Susceptible
Quinupristin+Dalfopristin	Susceptible	Tigecycline	Susceptible
Rhodamine Rifampin	Susceptible	Tobramcyin	Susceptible
Rifamycin	Susceptible	Tobramycin	Susceptible
		Triclosan	Susceptible
		Trimethoprim	Susceptible
		Tylosin	Susceptible
		Vancomycin	Susceptible
		Viomycin	Susceptible
		Virginiamycin_M	Susceptible
		Virginiamycin_S	Susceptible
		Zorbamycin	Susceptible

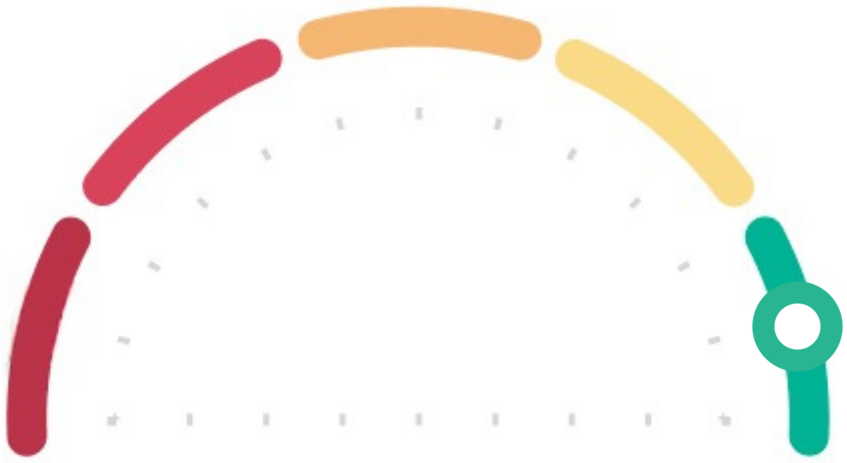
Microbiota Recovery Potential Post Antibiotic Course

Category Tag Ideal

Antibiotics are known to disrupt the microbiota ecosystem dramatically. Research suggest that recovery of the microbial ecosystem may be dependent on few species of bacteria among other factors. Our proprietary matrix and algorithm-based output predicts the microbiota recovery potential after a course of antibiotics. Know More about "Microbiota Recovery Potential" within the FAQ Section.

Poor potential to recover to a good microbiota

Good potential to recover to a good microbiota



Please Note:

This is not a diagnostic conclusion and clinical relevance is yet to be ascertained

SCFA Production Potential

Category Tag	Non-Ideal

Short Chain Fatty Acids improve the gut health through a number of local effects, ranging from maintenance of intestinal barrier integrity, mucus production, and protection against inflammation. Our proprietary algorithms based output suggests the following status of SCFA production in your gut based on your gut microbiota profile.

SCFA Production Potential			
Butyrate	Non-Ideal	Acetate	Non-Ideal
Propionate	Non-Ideal		

Vitamin Production Potential

Category Tag	Non-Ideal

The gut microbiota produce a variety of vitamins. Our proprietary algorithms based output suggests the following status of vitamin production in your gut based on your gut microbiota profile. Please follow your clinician, nutritionist's advice.

Vitamin Production Potential			
Vitamin B7	Non-Ideal	Vitamin A	Non-Ideal
Vitamin B12	Non-Ideal	Vitamin B2	Non-Ideal

Neurotransmitters

Category Tag	Non-Ideal

Gut microbiome produce neurotransmitters such as serotonin, dopamine and GABA, all of which play a key role in mood and other brain functions. Our proprietary algorithms based output suggests the following status of neurotransmitter production in your gut based on your gut microbiota profile. This has not been clinically validated.

Neurotransmitters			
Acetylcholine	Ideal	Norepinephrine	Non-Ideal
Dopamine	Non-Ideal	Serotonin	Non-Ideal
GABA	Non-Ideal	Tryptamine	Non-Ideal
Histamine	Ideal	Tryptophan *	Non-Ideal

Please Note: * Tryptophan is a precursor of many neurotransmitters.

Propensity to Disease Development

Category Tag	Below Average

The disease susceptibility index is based on our patent pending algorithm and matrix. Briefly, microorganisms in the gut are linked to various diseases. We have developed technology to assess the vulnerability of an individual to various diseases based on the gut microbiota profile. Know More about "Propensity to Disease Development" within the FAQ Section.

Gut Related Diseases			
Inflammatory Bowel Disease	Low Risk	Clostridium Difficile Infection	Low Risk
Irritable Bowel Syndrome	Low Risk	Colorectal Neoplasm	Low Risk
Leaky Gut	Moderate Risk	Constipation	Low Risk
Obesity	Moderate Risk	Crohns Disease	Low Risk
Ulcerative Colitis	Moderate Risk		

Lifestyle Diseases & Traits			
Aerobic Endurance	Unfavorable	Diabetes Mellitus Type 2	Low Risk
Muscle Strength	Favorable	Hypertension	Low Risk
Physical Endurance	Unfavorable	Sleep	Unfavorable
Prone to Fatigue	Unlikely		

Other Diseases			
Depression	Low Risk	Anxiety	High Risk
Non-Alcoholic Fatty Liver Disease	Low Risk	Atherosclerosis	Moderate Risk
Rheumatoid Arthritis	Low Risk	Chronic Kidney Disease	Low Risk

Disclaimer:

This is not a diagnostic report, but an algorithm-based susceptibility score based on the gut microbiota profile. Please correlate clinically. This indicates only susceptibility and not actual disease, hence this does not mean that individuals with diseases under low risk category will not clinically manifest the diseases or individuals with high disease risk will clinically manifest those diseases, as there are many factors apart from the gut microbiota that may result in the disease outcome.

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Nutritional Report

3 Phase (12 Week) Nutritional & Dietary Recommendation

Powered by BugSpeaks®

Dietary Recommendations

Our approach to restore the gut balance is based on a three stage strategy:

Phase 1

Restoring your gut microbiome - 2 Weeks

Involves restoration or resetting of your gut microbiome, where we minimize the composition and abundance of pathogenic or opportunistic microorganisms, to create a gut environment ideal for beneficial microorganisms to grow in Phase 2. This phase requires strict changes in your diet for a short period of time and supplementation with anti-inflammatory foods, natural antibiotics,andthroughrestriction of selected inflammatory foods.

Phase 2

Rebuilding your microbiome - 8 Weeks

Involves rebuilding of your healthy gut microbiome, through re-inoculation and replacement with mostly beneficial microorganisms. We achieve this through incorporation of prebiotics and probiotics, via natural dietary sources and commercially available supplements. This lasts for up to 10th week of your diet plan (a total of 8 weeks), which ensure the complete restoration of your gut microbiota.

Phase 3

Maintaining the healthy gut - 2 Weeks

Largely involvesastreamlinedmethodforsustainingthe healthy gut microbiome builtduring phase 2. These dietary, prebiotic and probiotic recommendations can be adopted for long term sustenance, spanning up to 2 weeks of your diet plan.

All 3phases have atotalof6foodcategories, each containing a listoffoodsand afrequencytag. Wehaveusedatotalof 4 frequency tags that indicates how frequently you can include a specific food in your meal plan.

- **can be consumed everyday [in 1 meal/day]**
- **can be consumed once in 3 days [in 1 meal/3 days]**
- **can be consumed every alternate day [in 1 meal/2 days]**
- **Avoid the consumption as much as possible**

Please Note:

These recommendations are largely beneficial, with no or minimal negative impact on your health. Even though these dietary charts are evidence based recommendations, we would strongly suggest you to consult a physician/nutritionist, before implementing these in your lifestyle. This is specifically true about the extent of inclusion and exclusion of a specific food and for individuals who are either diabetic, hypertensive and/or having special dietary needs.

Greens & Vegetables

Items	Phase 1	Phase 2	Phase 3
Ash Gourd			
Beet Root			
Bengal Gram			
Bitter Gourd			
Bottle Gourd			
Brinjal			
Broad Beans			
Broccoli			
Cabbage			
Capsicum			
Carrot			
Cauliflower			
Chickpeas			
Cho Cho			
Cluster Beans			
Cowpea			

Items	Phase 1	Phase 2	Phase 3
Cucumber			
Drumstick			
Fenugreek Leaves			
Field Bean			
French Beans			
Gogu Leaves			
Green Chillies			
Green Gram			
Green Peas			
Horse Gram			
Kidney Beans			
Knol			
Ladies Finger			
Moth Bean			
Mung Bean			
Mushrooms			

Items	Phase 1	Phase 2	Phase 3
Onion			
Pigeon Pea			
Pointed Gourd			
Potato			
Pumpkin			
Radish			
Ridge Gourd			

Items	Phase 1	Phase 2	Phase 3
Snake Gourd			
Spinach			
Sweet Corn			
Sweet Potato			
Tinda			
Tomatoes			
Yam			

Cereals, Herbs & Condiments

Items	Phase 1	Phase 2	Phase 3
Almond			
Asafoetida			
Cardamom			
Cashew Nut			
Cloves			
Coconut			
Coconut Oil			

Items	Phase 1	Phase 2	Phase 3
Coriander Leaves			
Coriander Seeds			
Cumin Seeds			
Curry Leaves			
Dates			
Fenugreek Seeds			
Finger Millet			

Items	Phase 1	Phase 2	Phase 3
Garlic			
Ghee			
Ginger			
Ground Nut			
Honey			
Jaggery			
Kodo Millets			
Little Millets			
Maize			
Mint Leaves			
Mustard Oil			
Mustard Seeds			
Olive Oil			
Palm Oil			
Pearl Millet			
Pepper			

Items	Phase 1	Phase 2	Phase 3
Pistachio Nuts			
Poppy Seeds			
Red Chilli Powder			
Rice Bran Oil			
Rice Flakes			
Rice Puffed			
Semame Oil			
Sesame Seeds			
Shalgam			
Sunflower Oil			
Sunflower Seeds			
Turmeric Powder			
Walnut			
Wheat			
Wheat Flour			
White Rice			

Fruits

Items

	Phase 1	Phase 2	Phase 3
Apple			
Banana			
Custard Apple			
Fig			
Goosberry			
Grapes			
Guava			
Jack Fruit			
Kala Jamun			
Kokum			
Lychee			
Mango			

Items	Phase 1	Phase 2	Phase 3
Mosambi			
Muskmelon			
Orange			
Papaya			
Pear			
Pineapple			
Pomegranate			
Raisins			
Sapota			
Strawberry			
Watermelon			
Wood Apple			

Egg & Meat

Items	Phase 1	Phase 2	Phase 3
Beef			

Items	Phase 1	Phase 2	Phase 3
Catla			

Items	Phase 1	Phase 2	Phase 3
Chicken			
Crab			
Egg			
Goat			
Haddock			
Mussels			
Oysters			
Pork			

Items	Phase 1	Phase 2	Phase 3
Prawns			
Rohu			
Salmon			
Sardine			
Sheep			
Trout			
Tuna			
Turkey			

Milk & Fermented Products

Items	Phase 1	Phase 2	Phase 3
Butter Milk			
Cheese			
Soy Products			
Kefir			
Kimchi			

Items	Phase 1	Phase 2	Phase 3
Kombucha			
Panner			
Sauerkraut			
Shrikhand			
Yogurt			

Processed Foods

Items	Phase 1	Phase 2	Phase 3
Artificial Sweeteners			
Bakery Breads			
Burger			
Cake			
Cookies			
Crackers			
Dark Chocolate			
French Toast			
Garlic Bread			

Items	Phase 1	Phase 2	Phase 3
Ice Cream			
Milk Chocolate			
Noodles			
Pasta			
Pastry			
Pizza			
Rolls			
Sandwich			
Taco			

Drinks & Beverages

Items	Phase 1	Phase 2	Phase 3
Beer			
Carbonated Beverages			
Distilled Alcoholic Beverages			
Milk Shakes			

Items	Phase 1	Phase 2	Phase 3
Red Wine			
Soy Milk			
Sugarcane Juice			
Tender Coconut			

Supplements

Probiotics

Probiotics are a set of beneficial microorganisms that help you metabolize the food you eat and have significantly positive impact on your overall gut health. Consuming foods or supplements rich in these probiotics will aid in restoring and maintaining a healthy gut in the long run. Below we have listed of probiotics species along with one example of its natural source.

Lactiplantibacillus plantarum	Brined olives	Bifidobacterium bifidum	Cheese
Limosilactobacillus reuteri	Kefir	Saccharomyces boulardii	Kefir
Lacticaseibacillus casei	Fermented milk	Saccharomyces cerevisiae	Kefir
Levilactobacillus brevis	Kimchi	Lactobacillus gasseri	Kimchi
Lactobacillus johnsonii	Fermented Vegetables	Lacticaseibacillus paracasei	Butter milk
Bacillus coagulans	Yogurt	Bacillus clausii	Fruit Juices
Limosilactobacillus fermentum	Fruits	Bacillus subtilis	Tempeh & Miso
Lactobacillus caucasicus	Kefir & Cheese	Bacillus indicus	Soyabean Natto
		Lactobacillus delbrueckii	Greek yogurt

Also, these supplements are available for purchase through online retailers. Example of a probiotic supplement include RychBiome.

Prebiotics

PREBIOTICS are a special form of dietary fibers that act as fertilizers for the probiotics in your gut (listed above). Below we have listed a set of prebiotics along with one example of its natural source.

Isomalto-oligosaccharides	Honey	Hemicellulosic oligosaccahride	Garlic
Arabinoxylan oligosaccharides	Cluster beans	Inulin	Onions
Dextran	Artichokes	Lactulose	Oats
Fructo-oligosaccharides	Sugar cane	Mannose and Galactose	Yogurt
Galacto-oligosaccharides	Bamboo shoots	Resistant starch	Rice bran

Also, these supplements are available for purchase through online retailers. Example of a Prebiotic supplement include Prebiotic D - a natural fiber to promote colon and gut health.

Sova

Microbiome Handbook

A exhaustive collection of all the terms & frequently asked questions

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Disease Description

Colorectal Neoplasm

Gut bacteria like Escherichia coli, Bacteroides fragilis Enterococcus etc., produces toxins that are reported to be involved in the development of cancers. Specifically, these toxins are called enterotoxigenic (in simpler terms - toxic to genes), which means these toxins can directly damage the DNA resulting in activation of uncontrollable cell proliferation, which eventually leads to cancer.

Non-Alcoholic Fatty Liver Disease

Microbiota promote the absorption of monosaccharides from the gut, thereby triggering lipogenesis in the liver. Dysbiosis is associated with reduced synthesis and secretion of fasting-induced adipocyte factor a powerful metabolism and adiposity regulator belonging to the angiopoietin-like protein family in enterocytes, which results in increased activity of lipoprotein lipase (LPL), responsible for the secretion of triglycerides (TG) from very low-density lipoprotein, eventually resulting in the augmented uptake of fatty acids and accumulation of TG in the adipocytes and leading to NAFLD.

Inflammatory Bowel Disease

The abundant bacteria in the gut needs complex polysaccharides to survive, which if absent in your gut, starts eating the mucus layer shielding the colon lining which leads to many opportunistic infections aided by Roseburia and Actinobacteria, which will further activate several enteric pathogens and triggers inflammatory pathways and causes inflammation in walls of gastrointestinal tract.

Hypertension

The fermentation of dietary fiber by gut microbiota generates short-chain fatty acids (SCFAs) like acetate, propionate, and butyrate. Butyrate is used by colonocytes (cells of the colon) to maintain the intestinal barrier and decrease local inflammation, while small amounts are transported with acetate and propionate to the liver through the portal vein. Most of the propionate is metabolized by the hepatocytes (liver cells), whereas acetate and remaining proportions of propionate and butyrate are released into the systemic circulation, they can reach organs involved in the regulation of blood pressure and help to maintain or reduce the blood pressure.

Crohns Disease

Increased abundance of Enterobacteriaceae activates other enteric pathogens that trigger a set of inflammatory pathways, causing irritation of your gut. For instance, Sulfate reducing bacteria inflame the lining of the gut, while Clostridium and certain fungi trigger the factors that decrease anti-inflammatory bacteria (Lactobacillus, Faecalibacterium), cumulatively triggering or inducing to Crohn's disease.

Ulcerative Colitis

Bifidobacterium and Lactobacillus maintains the gut mucosal integrity through the expression of many tight junction encoding genes (connections that bridge and hold the cells). Reduction of Bifidobacterium results in marked reduction in the tight junction expression, in turn reducing the gut integrity. Parallelly, increased abundance of E. coli activates bacterial TLR2 ligands and other downstream signaling, contributing to colitis pathology.

Clostridium Difficile Infection

A dysbiotic microbiota can result in the loss of colonization resistance due to changes in the structural and/or metabolic environment. The loss of specific community members potentially affects the levels of microbial and host-generated metabolites, resulting in a different functional state that promotes spore germination and vegetative outgrowth. A dysbiotic microbiota may also result in an imbalanced immune response through the loss of immune regulation and a proinflammatory state, both of which may affect disease development. Toxin production by vegetative C. difficile can stimulate the production of inflammatory cytokines, neutrophils, and antitoxin antibodies.

Prone to Fatigue

Tiredness can be a normal response to physical and mental activity. In most normal individuals are quickly relieved from regular fatigue (usually in hours to about a day, depending on the intensity of the activity). However, extreme tiredness resulting from physical exertiondefines the state of fatigue. Twitch muscle fibers maintains the contractile responses while performing different motor tasks, and is directly associated with fatigue. Higher abundance of Lactobacillus acidophilus, and supplementation with multi-strain probiotic of Lactobacillus and Bifidobacterium have shown better contractile responses and hence minimizing fatigue.

Atherosclerosis

Trimethylamine-N-oxide (TMAO) is a product of microbial-human co-metabolic pathway, which is derived from dietary (food based) choline and carnitine and converted to trimethylamine (TMA) by anaerobic bacteria residing within the lumen of the gut. TMA is then oxidized by a liver enzyme to TMAO. This TMAO is known to bea pro-atherogenic compound, which is directly implicated in the development of plaques inside the arteries. A dysbiosis in the intestinal microbiota, resulting in increased anaerobic bacteria, is thought to contribute to the chronic inflammatory state, production of TMAO and eventually atherosclerosis.

Chronic Kidney Disease

Delivery of undigested protein to the colon results in the proliferation of proteolytic bacteria. These bacteria ferment proteins and amino acids to generate potential uremic toxins, including p-cresol, indoxyl sulfate and trimethylamine N- oxide. Impaired gut barrier function allows translocation of uremic toxin into systemic circulation. This contributes to chronic kidney disease (CKD) progression.

Diabetes Mellitus Type 2

Diabetes mellitus is associated with chronic (slow developing) low-grade inflammation, and gut microbes have been shown to contribute to this. Lipopolysaccharides (LPS), which are components of the cell walls of Gramnegative bacteria, play a key role in the development of such chronic inflammation, resulting insulin resistance in fat, liver and muscle cells, eventually leading to Diabetes Mellitus Type 2.

Constipation

There are two important luminal (gut) factors, modulated by the gut microbiota, which maintains smooth muscle contraction and balanced bowel movements. The factors include short chain fatty acids (SCFAs) and bile acids. The absence of SCFAs due to low-fiber diet inhibit mucin secretion by intestinal goblet cells, reduce stool volume by stimulating water and electrolyte absorption, and inhibit smooth muscle contraction in the colon, causing imbalanced bowel movements/constipation.

Obesity

Fermentation of polysaccharides by gut microbes results in the production of short chain fatty acids (butyrate, propionate, acetate), carbon dioxide (CO2), and hydrogen (H2). Butyrate is an important energy substrate for the colonic epithelium. Acetate and propionate can be taken up by the liver and used as substrates for lipogenesis and gluconeogenesis. This result in increased availability of calories and adiposity to the host leading to obesity.

Rheumatoid Arthritis

The human gut microbiota and their metabolites can regulate immune cells and cytokines via epigenetic modifications. For example, short-chain fatty acids (SCFAs) produced by gut microbiota promote the differentiation of natural T cell into Treg cells by suppressing histone deacetylases (HDACs). Thus, resulting bacterial metabolites cause aberrant immune responses via epigenetic modifications, leading to Rheumatoid arthritis.

Depression

Depression is a syndrome (a group of symptoms) characterized by sad or irritable mood exceeding normal sadness or grief, both in its intensity and duration. On one end, specific gut microbes (like Blautia, Clostridium, Klebsiella etc.) are known to be higher in individuals with depression, which increase inflammation causing biochemicals that cause depression. On the other end, certain beneficial microbes (like Lactobacillus rhamnosus, Bifidobacterium breve etc.) are known to increase serotonin activity, and decrease norepinephrine and dopamine activities, overall reducing symptoms of depression.

Anxiety

It is defined as intense, excessive and persistent worry and fear about everyday situations. Anxiety is mostly induced by stress that triggers immune cells to produce biochemicals (like Interleukin-6) that cause symptoms of anxiety. Several gut microorganisms, like species of Bifidobacterium and other belonging to group of Bacteroides, release tryptophan, a precursor of neurotransmitter serotonin and Bacillus, Enterococcus species produce norepinephrine, and dopamine. All these three biochemicals together reduce the symptoms of anxiety by increasing the action of a brain chemical called gamma-aminobutyric acid (GABA). Hence, gut microbiome has emerged as a key factor to manage anxiety.

Physical Endurance

The ability to perform strenuous, large-muscle exercise or activities for a prolonged period is termed as physical endurance. High endurance sports / training is accompanied with production of oxidative stress, due to over production of reactive oxygen species (ROS) and reactive nitrogen species (RNS). Studies have observed that high abundance of Lactobacillus paracasei, Bifidobacterium sp., Lactobacillus rhamnosus and Faecalibacterium prausnitzii, in thegut aids in management of oxidative stress and hence positively correlated with endurance.

Aerobic Endurance

Aerobic endurance is the ability to sustain an aerobic effort over time, such as distance running or cycling. Aerobic endurance maintains the ability of the cardiovascular system to deliver oxygen to working muscles and the ability of the muscles to utilize that oxygen. The most common quantification of endurance is the maximal rate of oxygen uptake (VO2max). High abundance of Faecalibacterium prausnitzii has been associated with higher aerobic endurance.

Muscle Strength

Muscular strength is a component of fitness that is necessary for optimal well-being and quality of life. In general, physical endurance is directly correlated to muscle strength. Smooth muscle works most efficiently, and needs much less energy for its activity and they display considerable plasticity when healthy and young. However, these cells can switch to largely non-contractile mode in response to inflammatory stimuli, diet or other factors, which result in loss of plasticity and in turn contractibility. Supplementation with multi-strain probiotic of Lactobacillus and Bifidobacterium have shown better contractile responses and hence better muscle strength.

Leaky Gut

The occurrence of harmful bacteria in our gut may cause a leaky gut syndrome, which happens due to the high permeability of the intestinal walls, causing leakage of undigested food particles, bacteria, and many other substances into the nearby tissues. The leaky gut syndrome is directly connected with several health problems, such as chronic fatigue, Stomach aches, Insomnia, Inflammatory Bowel Syndrome, Constipation, Diarrhoea, Headaches, Depression, Cardiac problems, Pancreatic illness, etc. By populating friendly bacteria in your gut for optimal health, in turn through foods for a healthy gut, ensures the best way to restore your gut flora. This also ensures recovery tobetter gut health, specifically via probiotics which heal leaky gut to a great extent.

Sleep

The researchers have observed that gut microbiome plays a significant role in circadian clock along with other phenotypic characteristics, like, immunity, metabolism, and others. The circadian rhythm is our inner clock, which controls our body's energy disbursement, hunger, and snooze. We usually get about seven hours of sound sleep every night. In the morning, when we wake up, our body warms up to conduct daily chores. To run our body, we need energy, and energy comes from the food we eat during the day. At night, our body needs rest to rewind, so we fast and go to sleep. Gut microbiome resonates with this bodily rhythm. The scientific world now accepts the robust connection between sleep and intestinal wellbeing. A good quality night sleep allows more flourishing and better functioning gut microbiome and vice versa. Gut flora follows the rhythm by secreting specific molecules at certain times of the day. At night, secretion of factors responsible for energy metabolism, DNA repair, and proliferation occurs. During daytime, flora harbouring in the gut releases molecules essential for their colonization. Neurotransmitters like serotonin and GABA secreted by brain control our sleep-wakecycle. Astoundingly, certain intestinal bacteria including, Turicibacter sanguinis and Clostridia sp., release specific signalling molecules that trigger the production of serotonin. By modulating serotonin levels, the gut microbiome can interfere or improve our sleep pattern.

Evidences

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Frequently Asked Questions

1. Is BugSpeaks a diagnostic report?

No, BugSpeaks is not a diagnostic report however the information provided can be used to take complimentary/ supplementary measures along with standard treatment if needed. A lot of information contained in the report are actionable and provides guidance for living healthy!

2. What is Rych Index and how it can help?

Rych Index is a patent pending algorithm based intestinal health score developed by us. It tries to give a snapshot of the intestinal health with respect to the microbiota profile (microorganisms in the gut). It is not a diagnostic marker but can be used as an information to ascertain the gut health.

3. Is Rych Index only criteria for determining the gut health?

Rych index has been designed to take into consideration various gut microbiota characteristics, which in turn are known to influence the host health. However, this is an evolving research area and gut microbiota alone is not responsible of the complete gut health, although it plays a primary role. Genetics, gut architecture, gender, hormones, food, lifestyle etc. also play a role in defining the gut health.

4. Can "disease susceptibility" section be used as diagnostic?

No, disease susceptibility is a score-based prediction that is dependant on the microbiota profile. This is not a diagnostic assessment, but only a risk assessment.This can be used a guide for health. Preventive health check-ups can be performed if required.

5. Can pathogen characterization be used directly as indicator of pathogen load?

Pathogen characterization section uses bioinformatics tools to ascertain relative abundance of the various microbes. It is not based on culture assays and is not an indicator of absolute abundance of the microbes represented. However, this information can be used to correlate clinically and/or validated by other assays as may deem fit by the medical practitioner.

6. What is the "antibiotic recovery potential" section all about?

This is a unique score developed by us to provide an estimate of how well one's gut microbiota may recover post an antibiotic course. As it isknown, antibiotics not only kills that pathogen in question but can also destroy other bacteria in the gut leading to short term to long term deleterious effects. Everyone takes different time to recover their gut microbiota post an antibiotic course. Our efforthere is to provide a prediction of the potential of this recovery, post an antibiotic course. A lower score/potential means the person might need additional nutritional/supplemental support during or post an antibiotic course to recover faster and better.

7. What is foundation microbiota?

Foundation microbiota, also called as keystone species, are a set of organismsfundamental for the ecosystem to survive. These organisms help hold the system together and hence any perturbation in their abundance may have a deleterious effect on the overall ecosystem.

8. Is the nutritional recommendation personalized and can it cure my disease?

The nutritional recommendation is based on the gut microbiota profile of the individual. As the gut microbiota gets influenced by the food we eat, it is possible to modulate them by changing the food habit. Therefore, the microbiota profile based nutritional recommendation in this report tries to modulate the microbes in the gut to a balanced state (eubiosis) from a disbalanced or dysbiotic state.The nutritional recommendation in this report is disease agnostic, in other words it is not specifically targeted against any disease per se. However, if the balance is restored in the gut by following the nutritional recommendations, then there is a good chance that many of the clinical manifestations of various diseases that cropped up due to dysbiosis in the gut can be rectified.

9. Do I need to follow the nutritional recommendation for 3 months only?

Nutritional recommendations are designed in 3 phases for 3 months for better compliance. However, you may continue with the recommendations beyond 3 months till the time it is convenient for you.

10. What technology is used for making this report?

We use next generation sequencing or NGS. More specificallywe use whole genome shotgun metagenomics approach that can profile all microbes including bacteria, viruses, fungi, helminths etc. We have our own curated databases and patent pending algorithms and interpretation engine that led to the generation of this unique report.

For more "Frequently Asked Questions" please visit https://www.bugspeaks.com/faq

Disclaimer

•Throughout this Disclaimer (hereinafter referred to as "Disclaimer"), Leucine Rich Bio Private Limited is referred to as

"We/Us/Our" and the person to whom the specimen belongs (including such person's guardian or any person acting on his/her behalf) shall be referred to as "You/Your".

• This is not a diagnostic report (hereinafter referred to as this "Report") and therefore should be used for Research Use

Only (RUO) or Investigational Use Only (IUO) and should be interpreted or used exclusively by or under the guidance of a practitioner, including but not limited to, certified physicians, clinicians, dietitians, nutritionists, sports therapists nd such other persons in similar profession having appropriate validation to undertake such practice (from here on referred to as "Professional Practitioners"). It is imperative that any preventative or therapeutic measures taken, by placing reliance on this Report, for any of the diagnosis should be solely under the guidance of a "Professional Practitioner". In the event of You executing any preventative or therapeutic measures by virtue of practicing self-medication and/or undergoing diagnosis from persons other than Professional Practitioners, then We cannot be held responsible in any manner for any loss, liability, ounter-effect and so on suffered by You as a result of ignorance of this Disclaimer. Further, We shall not be held responsible for any misinterpretation by Your "Professional Practitioner" of this Report or for any other matter arising out of this Report.

•This Report's role is limited to providing insights of Your gut microbiome, with a general set of dietary recommendations and risk managements. General risk management strategies provided in Our Report are for information purpose only and in this regard, it is essential to understand that every person's resistance, immunity, sensitivity and response to medication is different and therefore not all general risk management strategies may be suitable to everyone. It is also essential to note that, while assessing Your Report and providing these recommendations, We assume that You are in a general state of good health, and do not consider Your past or existing health conditions and or any medication taken by You (either in the past or currently), even if You have provided Us with such information. Therefore, it is essential that, You consult aProfessional Practitioners for detailed recommendations or risk managements that may be specific / customized for You. In other words, information contained in this Report is not intended to replace medical or professional advice offered by Professional Practitioners.

•We would like to bring it to Your notice that not all disease-associated microbial groups may have been identified,

validated and recorded by the scientific community, and the clinical significance of many microbial groups are also not well understood. Hence, it should be noted that this analysis and this Report does not cover all clinically relevant microbes' that have been identified or reported till date. This Report is limited only to those variants within Your gut microbiome which has strong evidence of causing or contributing to a disease or a drug response or a metabolism related issue till date.

•We would also like to bring to Your attention that the microbiome sequencing data is being constantly updated both

with new taxonomic groups and curation of old microbial databases. Hence, it is subject to revision-based updates, based on the latest scientific research. Therefore, it is importantto note that it is possible that the interpretation of the results that have been reported herein may vary or be altered, subject to these revisions. Hence, We would recommend that You to undergo periodical reinterpretation of Your microbiome data that You possess, especially when a specific disease is confirmed through diagnosis or new symptoms arise, in the future.

•Microbiome information must always be considered in conjunction with other information about Your health, including,

but not limited to, Your age, sex, ethnicity, lifestyle, bio-medical history, family health history and any other information that You may provide to the "Professional Practitioner". This is especially critical with respect to the pharmacogenomics data (therapies and drugs), where a person's response to various medications is determined by the above listed factors.

•We would like to bring to Your attention that very specific and rare microbial groups are not reliably detected by

current sequencing methods or downstream analysis pipelines, hence they are not analyzed and interpreted within

the current Report.

•Overall, Your reliance upon this Report is solely at Your own discretion. Adequate care should be exercised in using all

health and medical related information and recommendations provided in this Report. We cannot be held responsible

in any manner for non – adherence by You to the terms and conditions contained in this Disclaimer. Further, We shall

not be responsible for any findings in this Report and disclaims any responsibility for any errors, including but not

limited to human error in reporting, and/or omissions by the sampler or agent either during collection of DNA samples

(stool etc.,) ordelivery of the DNA sample to Us. With respect to this Report or process undertaken to arrive at the

findings reflected orreported in the Report, We make no warranties of any kind including, without limitation, the implied warranties as to its merchantability, fitness for a specific purpose, accuracy and non- infringement.

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Thanks for taking the test with us.

Nurture your guthealth for a bettertomorrow. Visitour website and connect with our experts for an all-inclusive solution. Take charge of your well-being now!

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