

FlorInScan

Personalized Report

CACTUS HEALTH SRL

4E Zagazului street, building B, ground floor RO-014262 BUCHAREST

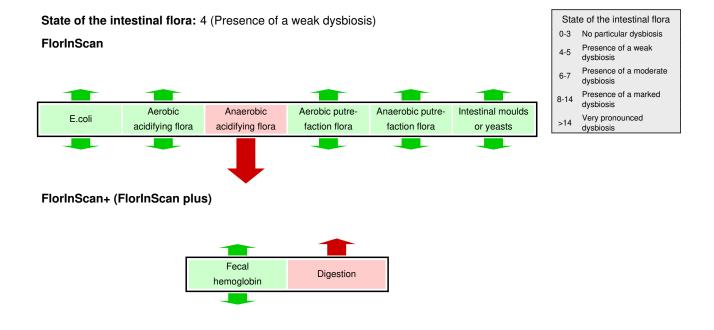
Reference: 1908160651 Patient-ID: 2016-02-21

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Lactobacillus spp.: Please pay attention to the change of reference range since 15.07.2019!



Summary

The stool flora is characterized by a reduced growth of the anaerobic acidifying flora. Although there is no overgrowth of the putrefaction flora, the defeciency of the acidifying flora can lead to an alkalization of the colon and a reduced colonization resistance of the small intestine.

Presence of signs of maldigestion/malabsorption. The existence of digestive residues combined with physiologic pancreatic elastase-1 levels is often associated with an overstrained digestive tract due to an unbalanced diet. Diminshed pancreatic elastase-1 levels are typical for an exocrine pancreatic insufficiency.

Colonization resistance:

The obligate intestinal germs such as E.coli, Enterococcus, Lactobacillus, Bacteroides and Bifidobacterium and the secretory IgA create a hostile environment and serve as a protection against colonization with pathogenic bacteria and with yeast or mould. If the intestinal equilibrium is disturbed for example by a decreased growth of one of the above mentioned germs, an ecological niche is created and supports the implantation of potential pathogenic germs. This is a so called diminished colonization resistance.

Results

Results	measured value	Tolerance range
Bacteriology		-
Aerobic flora		
E. coli	1.10 ⁷ CFU/g	5·10 ⁵ - 1·10 ⁷
E. coli var	< 1.10 ⁵ CFU/g	≤ 9·10 ⁴
Enterobacteriaceae	< 1.10 ⁵ CFU/g	≤ 9·10 ⁴
Proteus mirabilis	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Proteus vulgaris	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Klebsiella oxytoca	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Klebsiella pneumoniae	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Citrobacter spp	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Serratia spp	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Hafnia alvei	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Morganella morganii	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Providencia spp	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Pseudomonas spp	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
other aerobic germs	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Facultative anaerobes		
Enterococcus	1.10 ⁶ CFU/g	$1.10^{6} - 1.10^{7}$
Staphylococcus aureus	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
β-haemolys. Streptococcus	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Bacillus spp	< 1.10 ⁵ CFU/g	$\leq 9.10^4$
Anaerobic flora		
Bacteroidales	3·10 ⁸ CFU/g	$1.10^8 - 1.10^{10}$
Clostridium spp	< 1.10 ⁵ CFU/g	$\leq 1.10^5$
Bifidobacterium spp	4·10 ⁸ CFU/g	$1.10^8 - 1.10^{10}$
Lactobacillus spp	< 1.10 ⁵ CFU/g	$1.10^5 - 1.10^7$
Мусоlogy		
Candida albicans	< 1.10 ³ CFU/g	≤ 1·10 ³
Candida spp.	< 1.10 ³ CFU/g	≤ 1·10 ³
Geotrichum	< 1.10 ³ CFU/g	≤ 1·10 ³
other yeasts/ moulds	< 1.10 ³ CFU/g	≤ 1.10 ³
Other markers		
Fecal occult blood		
Fecal hemoglobin		1
Digestion and food intolerance		I
pH	6.7	5.1 - 6.0
Color	brown	I
Consistency	pasty	
Starch	-	
Lipids	++	
Muscle	· ·	
Pancreatic elastase 1	> 500 µg/g	≥ 200

Results and interpretation

The aerobic resident flora is in equilibrium and does not show any abnormalities.

The growth of Lactobacillus spp is decreased. Lactobacteria are part of the obligate resident intestinal flora and inhibit the multiplication and growth of non-resident germs particularly from the putrefaction flora like Clostridium spp. and Proteus by the production of bacteriocines. Lactobacteria have an exclusive saccharolytic activity. By splitting carbohydrates, they contribute to the acidification of the intestinal environment. Natural sources of Lactobacillus spp. are fermented milk products and acidifying foods such as pickled sour cabbage (Sauerkraut). It is important to note that these products yield high concentrations of histamine and thus may induce a histamine intolerance especially if the activity of the endogenous diaminoxidase is low. The serum diaminooxydase concentration should be measured in case of a suspicion of histamine intolerance. If diaminooxydase levels are low, a substitution with a dietary supplements containing Lactobacillus is highly recommended instead of natural sources of these probiotic bacteria.

Absence of a colonization by yeasts or moulds.

The pH of young children should be between 5.0 and 5.5. An increased value is associated with an unbalanced diet excessively in lipids and proteins.

The detection of large quantities of lipids is indicative of an uncomplete digestion of fatty acids. Possible causes could be an unsufficient emulsification due to a biliary excretion disorder or due to an exocrine pancreatic insufficiency.

Normal pancreatic elastase-1 value indicating a physiological function of the exocrine pancreas.

No human fecal hemoglobin was detected.

Treatment recommendations

Lactobacillus probiotic to stimulate the growth of the acidifying flora. Treatment duration: 3 months

General explications

Lactobacillus spp.

Lactobacilli are present in large concentrations in vegetables and are used as preservative agents by the food industry. Lactobacilli belong to the obligate but not to the resident flora of the small and large bowel, the buccal cavity and the vagina. A continuous supply needs to be provided through the consumption of yoghurts, cheese and crout. The metabolic activity olf lactobacilli is purely saccharolytic. They play a key role in pH regulation by producing short-chain fatty acids. Lactobacilli inhibit the proliferation of the putrefaction flora and the synthesis of carcinogenic compounds through the production of bactericins. The optimal pH for lactobacillus metabolic activity is about 6.

pН

The pH reflects the acid-base balance of the bowel content and is neither related to nor influenced by the pH of the stomach. Following factors influence the intestinal pH:

Fibers and the composition of the food, fermented products, intestinal flora, antibiotics and transit time of stool. An acidic stool is frequently associated with a carbon hydrate metabolism disorder. Laxatives (chemical and herbal substances) are associated with an acidification of the stool (pH < 6). Increased consumption of a protein-rich food, slow transit /constipation and reduced fiber intake alkalinize the stool (pH > 7.0).

Lipids

The excreted lipids can be composed of triglycerides, long chain fatty acids, cholesterin and phospholipids. They originate primarily from lipids ingested by food and they are indicative of an eventual maldigestion or a disturbed fat intake. An impaired lipase function or production of bile can lead to a malabsorption. Following circumstances have to be considered where increased concentrations of lipids are present in stool:

- Exocrine pancreas insufficiency (especially lipase)
- Cholestasis (gallbladder duct obstruction) or liver disease
- Disturbed enterohepatic circulation (small intestine disorder, bile salt deconjugation due to small bowel overgrowth syndrome SIBOS)
- Celiac disease
- Short bowel syndrome
- Whipple disease (rare)





Examples of our Genetic Profiles:

FEMgen:	Sporadic breast cancer	MACULAgen:	Age-Related Macular Degeneration
OSTEOgen:	Osteoporosis	LIPIDgen:	Lipid metabolism disorders
THROMBOgen:	Thrombosis	DIABETOgen:	Diabetes type II
PROSTATEgen:	Prostate cancer	COLOgen:	Sporadic colon carcinoma
DETOXgen:	Detoxification capacities	ALOPECIAgen:	Androgenetic alopecia
DETOXgen		EMOgen:	Emotional instability
heavy metals:	Detoxification of heavy metals	AUTISMgen:	Autism
OXIgen:	Oxidative stress	SKINgen:	Skin health
DENTYgen:	Periodontitis	Ŭ	
NEUROgen	Neurodegenerative diseases	WEIGHTgen:	Weight control
		WELL-BEING:	Anti-aging
CARDIOgen:	Cardiovascular diseases	NICOTINEgen:	Nicotine addiction



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