



LAB REPORT

JURGEN PALZ (M) 08/10/2024

<b>Patient Details</b> AGE (DOB): 10/06/1990 ORDER NUMBER: S8P7K72 SAMPLE ID: 2409130022	<b>Specimen Details</b> TYPE: SEMEN RECEIVED: 20/09/2024 CONDITION: ACCEPTABLE (GOOD)	<b>Partner Details</b> NAME: AGE (DOB): GENDER: FEMALE
---	--	---

FERTILYSIS MALE MICROBIOME: FULL

Pathogens & mycoplasmas	Result	Significance
CHLAMYDIA TRACHOMATIS	NOT DETECTED	NORMAL
MYCOPLASMA GENITALIUM	NOT DETECTED	NORMAL
MYCOPLASMA HOMINIS	NOT DETECTED	NORMAL
UREAPLASMA UREALYTICUM	NOT DETECTED	NORMAL
UREAPLASMA PARVUM	NOT DETECTED	NORMAL
TRICHOMONAS VAGINALIS	NOT DETECTED	NORMAL
NEISSERIA GONORRHOEAE	NOT DETECTED	NORMAL
Opportunistic microorganisms		
HEAMOPHILUS SPP.	NOT DETECTED	NORMAL
PSEUDOMONAS AERUGINOSA / RALSTONIA SPP. / BURKHOLDERIA SPP.	NOT DETECTED	NORMAL
ENTEROBACTERIACEAE / ENTEROCOCCUS SPP	VERY LOW	NORMAL
Transit microorganisms		
LACTOBACILLUS SPP.	NOT DETECTED	NORMAL
Commensals		
STAPHYLOCOCCUS SPP.	NOT DETECTED	NORMAL
STREPTOCOCCUS SPP.	LOW	NORMAL
CORYNEBACTERIUM SPP	LOW	NORMAL
BV-associated opportunistic microorganisms		
GARDNERELLA VAGINALIS	NOT DETECTED	NORMAL
MEGASPHAERA SPP. + VEILONELLA SPP. + DIALISTER SPP.	LOW	LOW
SNEATHIA SPP. + LEPTOTRIHIA SPP. + FUSOBACTERIUM SPP.	NOT DETECTED	NORMAL
ATOPOBIUM CLUSTER	VERY LOW	LOW
BV-ASSOCIATED OPPORTUNISTIC MICROORGANISMS, SUM	LOW	LOW
Opportunistic anaerobes		
BACTEROIDES SPP. / PORPHYROMONAS SPP. / PREVOTELLA SPP.	VERY HIGH	HIGH
ANAEROCOCCUS SPP.	LOW	NORMAL
PEPTOSTREPTOCOCCUS SPP. / PARVIMONAS SPP.	HIGH	HIGH
EUBACTERIUM SPP.	MODERATE	MODERATE
OPPORTUNISTIC ANAEROBES, SUM	VERY HIGH	HIGH
Yeast-like fungi		
CANDIDA SPP.	NOT DETECTED	NORMAL
Viruses		
HSV-1, HSV-2, EBV, CMV, HHV-6	NOT DETECTED	NORMAL

INTERPRETATION OF RESULTS AND RECOMMENDATIONS: HIGH RISK

<b>DIAGNOSIS:</b>	<b>ANEROBIC DYSBIOSIS WITH HHV-6 PRESENCE</b>
<b>DESCRIPTION:</b>	The sample was positive for <b>high levels of opportunistic anaerobic bacteria</b> , along with <b>BV-associated opportunistic microorganisms</b> . These levels of microorganisms may result in male reproductive tract inflammation, have a negative impact on sperm quality and fertility and therefore carry clinical significance and warrant treatment. Moreover, the sample was positive for the presence of <b>Human Herpesvirus 6 (HHV-6)</b> , a common member of the herpes virus family. While <b>HHV-6</b> detection should not normally signify any health concerns, herpes viruses' presence in the sperm, has been linked to sperm toxicity. Furthermore, in relation to female partner reproductive health, according to scientific publications, a correlation of <b>HHV-6</b> endometrial presence and female unexplained infertility has been shown.
<b>TREATMENT:</b>	We recommend that the treating physician considers antibiotic treatment typically used <b>anaerobic infections</b> (e.g., <b>Metronidazole</b> or <b>Clindamycin</b> ), in parallel to and followed by <b>male probiotics</b> . <b>Oral probiotics for the protection of the GI tract</b> in parallel to antibiotics are also recommended. Additionally, your doctor may also consider a <b>mild antiviral treatment</b> , such as <b>Valacyclovir</b> when actively attempting conception or in preparation for IVF.

P.D. Venieratos Ph.D.  
Reproductive Biologist

**Disclaimer:** The information contained herein is intended for educational/informational purposes only. It does not constitute medical advice or counselling, it does not represent a medical examination by itself, nor it is a substitute for medical advice or medical treatment and should not be considered in any way as prescriptive. The results and the information in this test have not been approved by any official body to be used directly for diagnostic testing and the medical information contained herein is not intended as a substitute for conventional medical testing used for diagnosis and treatment. The information contained in this document is intended for use by a healthcare professional and the recipient of this report should always either consult with their treating physician, regarding medical diagnosis and treatment, or seek the advice of a qualified health care professional, concerning personal health and medical conditions. Each treatment must be prescribed by a qualified medical doctor, as medical treatments may have negative side effects. Upon receiving the results of the test, only a treating physician should decide whether treatment is required and which is the correct treatment for the patient, based on the patient's clinical history, additional medical results, known allergies and other relevant medical data. Further suggested diagnostic testing may only take place in a licensed medical facility by healthcare professionals and under circumstances approved by medical law. In any case, FERTILYSIS will not be liable for damages and claims due to improper use or misinterpretation by the party ordering the test (contracting party) both of the information contained in this report and of the company's services in general.