

Quatreflora™

S. cerevisiae CNCM 1-3856

Support Women's intimate health with *Saccharomyces cerevisiae* CNCM I-3856

Throughout their lives, **75% of women** encounter intimate infections. Whether it is due to hormonal changes, stress, sex life, contraception or antibiotics, the reasons for these infections are so numerous and part of a woman's life that **recurrences are not rare**. Those factors may lead to a disruption of the vaginal microflora fragile system and thus impact their quality of life, confidence and can be responsible of persisting fatigue. To help **prevent** them and **allow** women live their lives to the fullest, Gnosis by Lesaffre has developed an active solution, **the yeast *Saccharomyces cerevisiae* CNCM I-3856 under the brand name of Quatreflora™**.

Why making the choice of yeast probiotics for intimate health ?

	Bacteria ¹⁻¹⁴	Yeast ¹⁵⁻²⁹	
Nutrient absorption			
Helps breakdown undigested carbohydrates and increases short-chain fatty acid levels	Yes	Yes	
Mediates the absorption of nutrients and enhances the release of brushborder membrane enzymes	Yes	Yes	
			Microbiota
	Yes	Yes	Helps to maintain healthy flora and re-establishes normal microbiota rapidly
Support overall immune system			
Acts as an immune stimulant through modulation of local and systemic immune responses	Yes	Yes	
Stimulates secretion of immunoglobulin A	—	Yes	Antipathogenic actions in intestine
	No	Yes	Helps to maintain barrier effects against pathogens colonization due to larger size cell for increased intestinal protection
Survival			
Survives the harsh gastric environment and reaches the intestine in the active states	—	Yes	
Resists and works during antibiotic use and treatment	—	Yes	Migration
	Yes	Yes	Shows to migrate from intestine to vagina where it may exert its beneficial effects
Antipathogenic actions in vagina			
Able to coaggregate with the pathogen <i>Candida albicans</i> and to induce its clearance	Yes	Yes	
Able to inhibit hyphal formation and the production of virulence factors by <i>Candida albicans</i> or by <i>Gardnerella vaginalis</i>	Yes	Yes	Vaginal epithelium integrity
	Yes	Yes	Protects the vaginal epithelium from pathogens (i.e. <i>C. albicans</i> and <i>G. vaginalis</i>) by forming a barrier
	Yes	Yes	Reduces the inflammation induced by virulence factors in candidiasis infection
Vaginal microbiota			
Helps to maintain healthy vaginal flora & re-established normal microbiota rapidly	Yes	Yes	

Migration

After oral administration, Quatreflora™ has been shown to migrate from intestinal flora to vaginal flora where it may exert its beneficial effects. This oral administration has a double advantage since Quatreflora™ can exert an early antipathogenic action in the intestine, thus preventing the recurrence of vaginal infections. The second advantage is that Quatreflora™ can be taken orally. This easier way of administration also means a better compliance which is often the pet-peeve when women start a preventive therapy.



¹⁻¹⁴: Axling et al. 2020, Balini et al. 2019, Markowiak et al. 2020, Resta et al. 2009, Zhang et al. 2013, Vieira et al. 2013, Martins et al. 2009, Basic microbiology book, Marteau et al. 1997, Martinez et al. 2011, Zawistowska-Rojek et al. 2016, Bohbot et al. 2012, Santos et al. 2016, Wang et al. 2017, Martinez et al. 2009, Li et al. 2019, Reid et al. 2003, Buts et al. 2006
¹⁵⁻²⁹: Terciolo et al. 2020, Moré et al. 2015, Zanello et al. 2011, Foligné et al. 2010, Jawhara et al. 2012, Sivignon et al. 2015, Roussel et al. 2018, Cordonnier et al. 2015, Blanquet-Diot et al. 2011, Thévenot et al. 2015, Klein et al. 1993, Decherf et al. 2020, Decherf et al. 2017, Sabbatini et al. 2018, Pericolini et al. 2016 Sabbatini et al. 2020, Gabrielli et al. 2018, Pending publication 2021.
Studies titles are available and can be provided upon request.