## needed.

This guide is intended as a helpful resource in talking to your health practitioner about the benefits of Needed's prenatal Pre/Probiotic.

Needed.® is a nutrition company on a mission to empower real nourishment in women on their motherhood journey. We work directly with health practitioners and researchers to offer science-backed products and education. Learn more at thisisneeded.com. If you have questions, drop us a note at practitioners@thisisneeded.com.



# A tailored Pre/Probiotic is key to a healthy microbiome for mama and baby.

- The right strains support mama's health today, and baby's for a lifetime to come
- Foods like fermented vegetables, yogurt, kefir, and kombucha can be helpful, but often aren't enough

## A better prenatal Pre/Probiotic is needed.

- Targeted strains of spore-forming and non-spore-forming bacteria needed before, during, and after pregnancy
- Optimal quantities (26 Billion CFU) and forms that survive digestion
- Prebiotics for additional support in cultivating healthy bacteria
- Powder in clean capsules for safe keeping
- Expertly formulated in partnership with the leading microbiome researchers at Microbiome Labs, naturopathic and functional medicine doctors, and other practitioners and researchers
- Every batch is third-party tested



healthy immunity for mama and baby



seeding baby's microbiome



mama's microbiome, including vaginal health



mama's digestion and nutrient absorption



mama's balanced mood and healthy blood sugar/pressure

"From all the research that we have done and what we know collectively as a society about the microbiome, we know how critical pregnancy focused microbiome support is for both mom and baby. We were thrilled to finally find the right company to partner with to bring a pregnancy focused probiotic to life with."

## We offer a comprehensive formula that provides unmatched cultivation of the vaginal and gut microbiomes

in order to support positive health outcomes for mama and baby.

#### 3 Lactobacillus strains (17 Billion CFU)

- Lactobacillus bacteria are found in fermented foods like yogurt and kefir, but often without the exact strains and amounts needed
- Lactobacillus bacteria convert sugars into lactic acid which help increase the acidity of the gut and vagina, which helps reduce the growth of unfriendly bacteria
- These Lactobacillus strains cultivate healthy vaginal and gut microbiomes; support baby's health skin; boost maternal and infant immune functions; balance maternal mood; support healthy breastmilk; reduce the risk of infections1

#### Bifidobacterium strain (5 Billion CFU)

- Bifidobacterium are found in fermented foods like sauerkraut, but often without the exact stains and amounts needed
- This Bifidobacterium strain supports overall gut health, as a keystone species; cultivates healthy vaginal microbes; supports healthy digestion; supports baby's health skin; boosts maternal and infant immune functions; reduces allergic symptoms<sup>2</sup>

#### 3 Bacillus Spores (4 Billion CFU)

Bacillus spores were abundant in the foods consumed by our ancestors. Modern food systems and soil degradation have mostly eliminated our exposure to these needed organisms

✓ These Bacillus spores cultivate healthy vaginal and gut microbiomes; boost maternal and infant immune functions; balance maternal mood; improve B vitamin status; enhance butyrate production; support a healthy inflammatory responses; balance blood sugar<sup>3</sup>

#### 2 Prebiotics (450mg)

- Natural prebiotics from citrus polyphenols and kiwi fruit enhance growth of healthy bacteria
- The prebiotics cultivate healthy vaginal and gut microbiomes; boost maternal and infant immune functions; pregnancy viability; enhance healthy short-chain fatty acid production; support a healthy inflammatory responses; balance blood sugar; reduce allergic symptoms<sup>4</sup>

Supplement Fa	Serving Size Servings Per	e 2 Capsules r Container about 30
Amount Per 2 Capsule Serving		
Needed.® Probiotic Blend	260 mg	26 Billion CFU
Lactobacillus acidophilus La-14®	)	9 Billion CFU **
Lactobacillus rhamnosus HN001		6 Billion CFU **
Bifidobacterium longum BI-05		5 Billion CFU **
Bacillus subtilis HU58™		2 Billion CFU **
Lactobacillus reuteri 1E1		2 Billion CFU **
Bacillus coagulans SC208		1 Billion CFU **
Bacillus clausii SC109		1 Billion CFU **
Needed.® Prebiotic Blend		
Citrus bioflavonoid complex (MicrobiomeX®)		250 mg **
Organic gold kiwifruit concentrate (Livaux® FOS)		200 mg **
** Daily Value not established.		
Other Ingredients: Cellulose, Vegetable Capsule.		

OTHER INGREDIENTS: CELLULOSE AND VEGETABLE CAPSULE

### **Our Products Work**

## Best Together.

We designed our Pre/Probiotic to be taken with our Prenatal Multi, Omega-3, and Collagen Protein. Together, these products optimally nourish mama and baby before, during, and after pregnancy - and beyond.

#### Interested in sharing Needed?

We offer a Practitioner Partners referral program that rewards practitioners and their communities for prioritizing better nutrition. To learn more, visit thisisneeded.com/pages/practitioner.



#### REFERENCES

Wickens K, Black P, Stanley TV, et al. A protective effect of Lactobacillus rhamnosus HN001 against eczema in the first 2 years of life persists to age 4 years. Clin Exp Allergy. 2012;42(7):1071-1079

Slykerman RF, Hood F, Wickens K, et al. Effect of Lactobacillus rhamnosus HN001 in Pregnancy on Postpartum Symptoms of Depression and Anxiety: A Randomised Double-blind Placebo-controlled Trial. EBioMedicine. 2017;24:159-165.

Wickens KL. Early pregnancy probiotic supplementation with Lactobacillus rhamnosus HN001 may reduce the prevalence of gestational diabetes mellitus: a randomised controlled trial. British Journal of Nutrition. 2017;117(6):804-813.

De Alberti D, Russo R, Terruzzi F, Nobile V, Ouwehand AC. Lactobacilli vaginal colonisation after oral consumption of Respecta(®) complex: a randor controlled pilot study. Arch Gynecol Obstet. 2015;292(4):861-867.

Russo R, et al. Randomised clinical trial in women with Recurrent Vulvovaginal Candidiasis: Efficacy of probiotics and lactoferrin as maintenance treatment. Mycoses. 2019;62(4):328-335.

Ojetti V, Ianiro G, Tortora A, et al. The effect of Lactobacillus reuteri supplementation in adults with chronic functional constipation: a randomized, double-blind, placebo-controlled trial. J Gastrointestin Liver Dis. 2014;23(4):387-391.

Böttcher MF, et al. Low breast milk TGF-beta2 is induced by Lactobacillus reuteri supplementation and associates with reduced risk of sensitization during infancy. Pediatr Allergy Immunol. 2008;19 (6):497–504

Ho M, Chang YY, Chang WC, et al. Oral Lactobacillus rhamnosus GR-1 and Lactobacillus reuteri RC-14 to reduce Group B Streptococcus colonization in pregnant women: A randomized controlled trial. Taiwan J Obstet Gynecol. 2016;55(4):515-518.

Z Cofermentations Are Affected by Carbon Sources, Including Exopolysaccharides Produced by Bifidobacteria. Applied and Environmental Microbiology. 2013;79(23):7518-7524.

Lawson MAE. Breast milk-derived human milk oligosaccharides promote Bifidobacterium interactions within a single ecosystem. The ISME Journal. 2019;14(2):635-648.

Rautava S, Kainonen E, Salminen S, Isolauri E. Maternal probiotic supplementation during pregnancy and breastfeeding reduces the r eczema in the infant. J Allergy Clin Immunol. 2012;130(6):1355–1360.

Tabatabaei N, Eren AM, Barreiro LB, et al. Vaginal microbiome in early pregnancy and subsequent risk of spontaneous preterm birth: a case-control study. BJOG. 2019;126(3):349-358.

3 Edwards SM, Cunningham SA, Dunlop AL, Corwin EJ. The Maternal Gut Microbiome During Pregnancy. MCN Am J Matern Child Nurs. 2017;42(6):310-317.

Zhang HL, Li WS, Xu DN, et al. Mucosa-reparing and microbiota-balancing therapeutic effect of Bacillus subtilis alleviates dextrate sulfate sodium-induced ulcerative colitis in mice Exp Ther Med. 2016;12(4):2554-2562.

Stein T. Bacillus subtilis antibiotics: structures, syntheses and specific functions. Mol Microbiol. 2005;56(4):845-857.

Cheng H-W. Gut-Brain Axis: Probiotic, Bacillus subtilis, Prevents Aggression via the Modification of the Central Serotonergic System. Oral Health by Using Probiotic Products. November 2019.

Cribby S, Taylor M, Reid G. Vaginal microbiota and the use of probiotics Interdiscip Perspect Infect Dis. 2008;2008:256490.

Ratna Sudha M, Yelikar KA, Deshpande S. Clinical Study of Bacillus coagulans Unique IS-2 (ATCC PTA-11748) in the Treatment of Patients with

Bacterial Vaginosis. Indian J Microbiol. 2012;52(3):396-399. Miller EM. Changes in serum immunity during pregnancy. Am J Hum Biol. 2009;21(3):401-403.

Ciprandi G, et al. Cytokines evaluation in nasal lavage of allergic children after Bacillus clausii administration: a pilot study. Pediatr. Allergy Immunol. 2004;15(2):148-151.

Ciprandi G, et al. Bacillus clausii exerts immune-modulatory activity in allergic subjects: a pilot study. Eur Ann Allergy Clin Immunol. 2005;37:129-133.

4 Randomised Clinical Study: Efficacy Of Microbiomex® On Microbiome Composition And Gut Inflammation In Healthy Overweight Individuals. Unpublished Study. 2017.

Tersigni C, D'Ippolito S, Di Nicuolo F, et al. Recurrent pregnancy loss is associated to leaky gut: a novel pathogenic model of endometrium inflammation? [published correction appears in J Transl Med. 2019 Mar 15;17(1):83]. J Transl Med. 2018;16(1):102.

Srugo SA, et al. Impact of Maternal Malnutrition on Gut Barrier Defense: Implications for Pregnancy Health and Fetal Development. Nutrients. 2019:11(6):1375.

Blatchford P, Stoklosinski H, Eady S, et al. Consumption of kiwifruit capsules increases Faecalibacterium prausnitzii abundance in functionally constipated individuals: a randomised controlled human trial. J Nutr Sci. 2017;6:e52.

Roduit C, Frei R, Ferstl R, et al. High levels of butyrate and propionate in early life are associated with protection against atopy. Allergy. 2019;74(4):799-809.

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.