

Probiotics & Omega 3

Innovation comes in one softgel

With SIRIO's probiotic softgels, you are not only investing in an innovative formulation produced in a patented process, but also in rapidly growing markets.

Global market value:	2020	2027 (estimated)
Probiotic supplements used for gastrointestinal health ¹	\$US 1.1 billion	\$US 2.1 billion
Fish-oil, Omega-3 ²	\$US 1.9 billion	\$US 2.8 billion

What's in it?

The WHO defines **Probiotics** as living microorganisms that 'when administered in adequate amounts, confer a health benefit on the host'.³

Bifidobacteria belong to the best researched probiotic strains; they contribute to a healthy gut microbiota and exert beneficial effects on the immune system.⁴

Omega-3 fatty acids: DHA & EPA contribute to the maintenance of normal blood pressure, normal blood triglyceride levels, the normal function of the heart. In addition, DHA contributes to maintenance of normal brain function and normal vision.⁵

Vitamin D contributes to the normal function of the immune system and healthy inflammatory response.⁵ It promotes epithelial cell integrity, beneficial for the microbiome.⁶



One softgel covering a lifetime of benefits

The optimal combination of bifidobacteria, omega 3 and vitamin D enables a variety of health benefits that will thrill your customers.^{4,5}



Digestion



Immunity



Heart



Brain



Vision



Pregnancy



Bones

1. [statista.com/statistics/1198131/forecast-of-the-global-probiotic-supplements-market](https://www.statista.com/statistics/1198131/forecast-of-the-global-probiotic-supplements-market).

2. [businesswire.com/news/home/20200909005847/en/Global-Fish-Oil-Market-2020-to-2027](https://www.businesswire.com/news/home/20200909005847/en/Global-Fish-Oil-Market-2020-to-2027)

3. Joint FAO/WHO Working Group Report on Drafting Guidelines for the Evaluation of Probiotics in Food London, Ontario, Canada, April 30 & May 1, 2002

4. Feng P, et al., (2018) 'A Review on Gut Remediation of Selected Environmental Contaminants: Possible Roles of Probiotics and Gut Microbiota' Nutrients. 2018; 11(1).

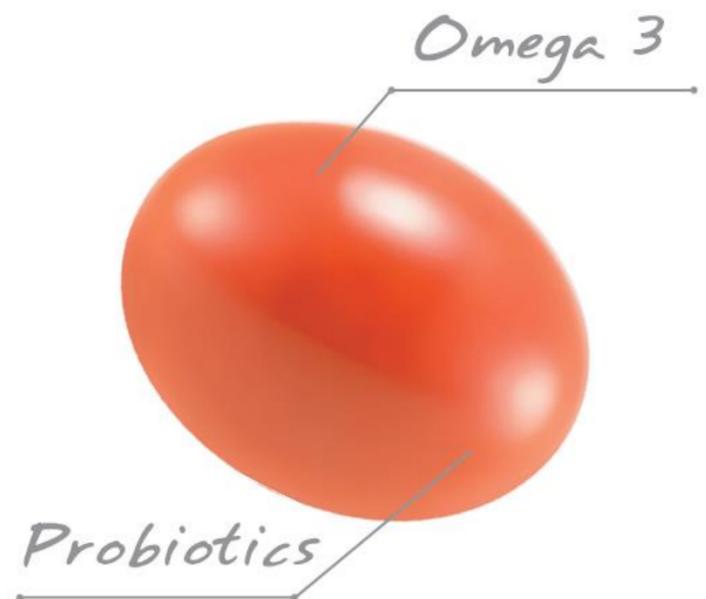
5. Gill H.S. et al., (2000) 'Enhancing immunity by dietary consumption of a probiotic lactic acid bacterium (Bifidobacterium lactis HN019): optimization and definition of cellular immune responses' Eur J Clin Nutr. 2000; 54(11): 849-855.

6. EU Register of nutrition and health claims;

7. Bakke D. & Sun J.: Ancient Nuclear Receptor VDR With New Functions: Microbiome and Inflammation; Inflamm Bowel Dis. 2018 Jun; 24(6): 1149-1154

KEY SOFTGEL BENEFITS

- ✓ Unique probiotic and omega-3 concept
- ✓ Positive effects on immunity, brain function & gut health⁴⁻⁷
- ✓ Single dose
- ✓ Premium quality ingredients
- ✓ High bioavailability
- ✓ Excellent dose uniformity
- ✓ High compliance rate
- ✓ Easy to swallow



PATENTED TECHNOLOGY

Technical challenge

- Softgel production requires high temperature & moisture.
- Probiotics are viable microorganisms & susceptible to temperature, humidity, mechanical stress and interaction with other ingredients.

Patented technology

- An improved process for producing a softgel capsule comprising **viable** probiotic bacteria and a softgel comprising probiotic bacteria with a **long shelf-life**.



(11) EP 3 446 695 B1

(12) EUROPEAN PATENT SPECIFICATION

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(54) AN IMPROVED PROCESS FOR PRODUCING A SOFT GEL CAPSULE COMPRISING VIABLE PROBIOTIC BACTERIA AND A SOFT GEL CAPSULE COMPRISING VIABLE PROBIOTIC BACTERIA HAVING A LONG SHELF LIFE

VERBESSERTES VERFAHREN ZUR HERSTELLUNG EINER WEICHGELKAPSEL MIT LEBENSFÄHIGEN PROBIOTISCHEN BAKTERIEN UND WEICHGELKAPSEL MIT LEBENSFÄHIGEN PROBIOTISCHEN BAKTERIEN MIT LANGER HALTBARKEIT

PROCÉDÉ AMÉLIORÉ DE PRODUCTION D'UNE CAPSULE DE GEL MOU COMPRENANT DES BACTÉRIES PROBIOTIQUES VIABLES ET CAPSULE DE GEL MOU COMPRENANT DES BACTÉRIES PROBIOTIQUES VIABLES AYANT UNE LONGUE DURÉE DE CONSERVATION

Made in Germany

Manufacturing site **pharma GMP, US-FDA, IFS, BRC, EU Organic, MSC, FOS, Feed certified**

For more information, please visit our website: sirio-europe.com

Market launch is subject to local regulatory requirements

ABOUT SIRIO

SIRIO Pharma is a leading, global nutraceutical CDMO, specialized in developing and manufacturing best quality products including softgels, gummies, tablets, various probiotic dosages forms, functional beverages and many more.

With over 18 international quality certifications we can offer product solutions for clients world-wide.

Excellence and innovation are driving us. Therefore, we keep investing in R&D, new technologies and services.

SIRIO in Europe always operates within the full understanding of the regulations of the EFSA.

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