Nutrition Centre
By TATE & LYLE

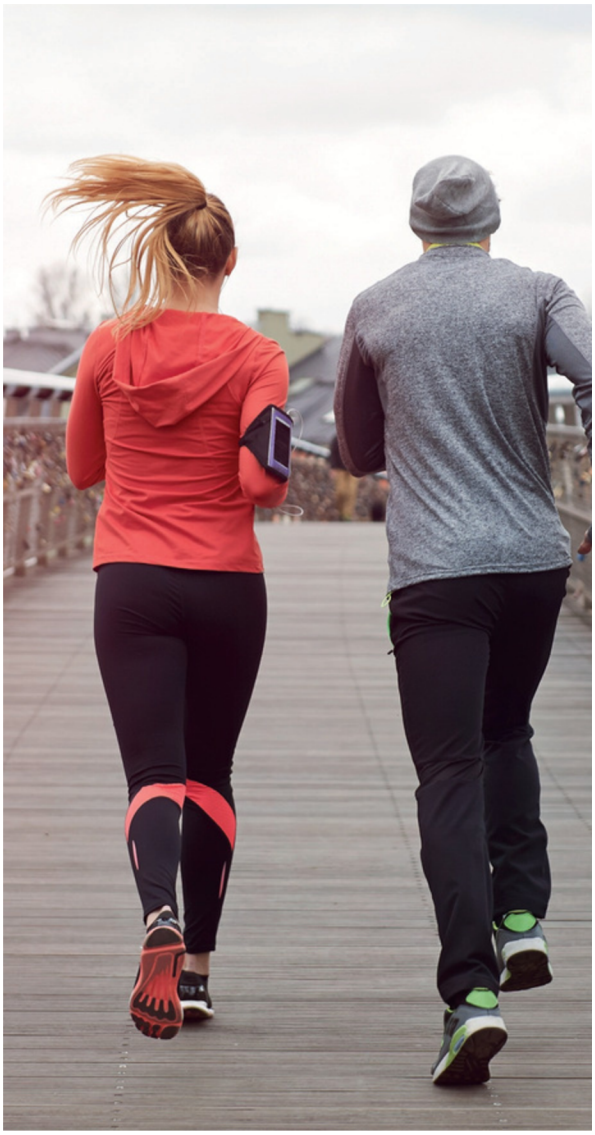
PROMITOR®
Soluble Fibre

Health benefits of PROMITOR® Soluble Fibre: Published scientific studies

Nutrition Centre
By TATE & LYLE

Published scientific studies:

PROMITOR® Soluble Fibre



Supports weight management with fewer calories

Canene-Adams K, et al. Estimating the potential public health impact of fibre enrichment: a UK modelling study. Br J Nutr. 2022 Nov 14;128(9):1868-1874.

,Canene-Adams K, et al. A randomized, double-blind, crossover study to determine the available energy from soluble fiber. J AM Coll. Nutr. 2021 Jul;40(5):412-418

Cervantes-Pahm SK, et al. Effect of novel fiber ingredients on ileal and total tract digestibility of energy and nutrients in semi-purified diets fed to growing pigs. J Sci Food Agric. 2014 May;94(7):1284-90.

Cervantes-Pahm S, et al. Comparison of two different in vivo models and an in vitro model for caloric determination of four novel fiber ingredients. J Agric Food Chem. 2013 Dec 18;61(50):12374-9.

Fastinger ND, et al. Glycemic response and metabolizable energy content of novel maize-based soluble fibers F4-809, F4-810 and F4-810LS using canine and avian models. FASEB J.2007 21:A744.

Favourable glycaemic response

Tan WSK, et al. The role of soluble corn fiber on glycemic and insulin response. Nutrients 2020 Mar;12(4):961.

Konings E, et al. Effect of polydextrose and soluble maize fibre on energy metabolism, metabolic profile and appetite control in overweight men and women. Br J Nutr. 2014 Jan;111(1):111-21.

Kendall CW, et al. Effect of novel maize-based dietary fibers on postprandial glycemia and insulinemia. J Am Coll Nutr. 2008 Dec;27:711-8.

Fastinger ND, et al. Glycemic response and metabolizable energy content of novel maize-based soluble fibers F4-809, F4-810 and F4-810LS using canine and avian models. FASEB J. 2007 21:A744.

PROMITOR® Soluble Fibre – Health Benefits

Nutrition Centre
By TATE & LYLE

Prebiotic and synbiotics effects

Arroyo M, et al. Age-Dependent Prebiotic Effects of Soluble Corn Fiber in M-SHIME® Gut Microbial Ecosystems. Plant Foods Hum Nutr. 2023 Mar;78(1), 213–220.

Herisson, F, et al. Targeting the Gut-Heart Axis Improves Cardiac Remodeling in a Clinical Scale Model of Cardiometabolic Syndrome. J Am Coll Cardiol Basic Trans Science. null2024, 0 (0) .

Costabile A, et al. Effects of soluble corn fiber alone or in synbiotic combination with lactobacillus rhamnosus GG and the pilus-deficient derivative GG-PB12 on fecal microbiota, metabolism, and markers of immune function: a randomized, double-blind, placebo-controlled, crossover study in healthy elderly (Saimes study). Front Immunol. 2017 Dec;8:1443.

Whisner CM, et al. Soluble corn fiber increases calcium absorption associated with shifts in the gut microbiome: a randomized dose-response trial in free-living pubertal females. J Nutr. 2016 Jul;146:1298-306.

Costabile A, et al. Prebiotic potential of a maize based soluble fiber and impact of dose on the human gut microbiota. PLoS ONE 2016 Jan;11(1):e0144457.

Whisner CM, et al. Soluble maize fibre affects short-term calcium absorption in adolescent boys and girls: a randomised controlled trial using dual stable isotopic tracers. Br J Nutr. 2014 Aug;112:446-56.

Vester Boler BM, et al. Digestive physiological outcomes related to polydextrose and soluble maize fibre consumption by healthy adult men. Br J Nutr. 2011 Dec;106:1864-71.

Weaver CM, et al. Novel fibers increase bone calcium content and strength beyond efficiency of large intestine fermentation. J Agri Food Chem. 2010 Aug;58:8952-8957.

Maathuis A, et al. The effect of the undigested fraction of maize products on the activity and composition of the microbiota determined in a dynamic in vitro model of the human proximal large intestine. J Am Coll Nutr. 2009 Dec;28:657-66.

Calcium absorption and bone calcium retention

Jakeman AS, et al. Soluble corn fiber increases bone calcium retention in postmenopausal women in a dose-dependent manner: a randomized crossover trial. Am J Clin Nutr. 2016 Sep;104(3):837-43.

Whisner CM, et al. Soluble corn fiber increases calcium absorption associated with shifts in the gut microbiome: a randomized dose-response trial in free-living pubertal females. J Nutr. 2016 Jul;146:1298-306.

Whisner CM, et al. Soluble maize fibre affects short-term calcium absorption in adolescent boys and girls: a randomised controlled trial using dual stable isotopic tracers. Br J Nutr. 2014 Aug;112:446-56.

Weaver CM, et al. Novel fibers increase bone calcium content and strength beyond efficiency of large intestine fermentation. J Agri Food Chem. 2010 Aug;58:8952-8957.

PROMITOR® Soluble Fibre – Health Benefits

Nutrition Centre
By TATE & LYLE

Gut health, laxation and digestive tolerance

Risso D, et al. Moderate intakes of soluble corn fibre or inulin do not cause gastrointestinal discomfort and are well tolerated in healthy children. Int J Food Sci Nutr. 2022 Dec; 73(8), 1104–1115.

Van Hul M, et al. Comparison of the effects of soluble corn fiber and fructooligosaccharides on metabolism, inflammation, and gut microbiome of high-fat diet-fed mice.
Am J Physiol Endocrinol Metab. 2020 Oct;319(4):E779-E791.

Knapp BK, et al. Soluble fiber dextrin and soluble corn fiber supplementation modify indices of health in cecum and colon of Sprague-Dawley rats. Nutrients. 2013 Feb 4;5(2):396-410.

Timm DA, et al. Polydextrose and soluble corn fiber increase five-day fecal wet weight in healthy men and women. J Nutr. 2013 Apr;143:473-478.

Housez B, et al. Evaluation of digestive tolerance of a soluble corn fibre. J Hum Nutr Diet. 2012 Oct;25(5):488-96.

Bassaganya-Riera J, et al. Soluble fibers and resistant starch ameliorate disease activity in interleukin-10-deficient mice with inflammatory bowel disease. J Nutr. 2011 Jul;141(7):1318-25.

Vester Boler BM, et al. Digestive physiological outcomes related to polydextrose and soluble maize fibre consumption by healthy adult men. Br J Nutr. 2011 Dec;106:1864-71.

Stewart ML, et al. Evaluation of the effect of four fibers on laxation, gastrointestinal tolerance and serum markers in healthy humans.
Ann Nutr Metabol. 2010 56:91-98.

Immune health benefits*

Costabile A, et al. 2017 (full reference above in prebiotic section).

Valcheva R, et al. Soluble Dextrin Fibers Alter the Intestinal Microbiota and Reduce Proinflammatory Cytokine Secretion in Male IL-10-Deficient Mice. J Nutr. 2015 Sep;145(9):2060-6.

Knapp BK, et al. Soluble fiber dextrin and soluble corn fiber supplementation modify indices of health in cecum and colon of Sprague-Dawley rats. Nutrients. 2013 Feb 4;5(2):396-410.

*Emerging research area.

Nutrition Centre
By TATE & LYLE

To learn more about Tate & Lyle ingredients and innovations as well as health benefits and relevant research, please visit www.tateandlyle.com/nutrition-centre

This leaflet is provided for general circulation to the nutrition science and health professional community and professional participants in the food industry, including prospective customers for Tate & Lyle food ingredients. It is not designed for consumer use. The applicability of label claims, health claims and the regulatory and intellectual property status of our ingredients varies by jurisdiction. You should obtain your own advice regarding all legal and regulatory aspects of our ingredients and their usage in your own products to determine suitability for their particular purposes, claims, freedom to operate, labelling or specific applications in any particular jurisdiction. This product information is published for your consideration and independent verification. Tate & Lyle accepts no liability for its accuracy or completeness. Tate & Lyle • 5450 Prairie Stone Parkway, Hoffman Estates, IL 60192 • 1.800.526.5728.