Nutraland USA Announces Peer-Reviewed Study on the Effects of AKK001™ Postbiotic Combination on Metabolic Health

Clinical trial evaluated AKK001™ and tributyrin intervention across body morphology, glucose regulation, lipid metabolism, and related safety parameters.



IRVINE, CA, UNITED STATES, September 10, 2026 /EINPresswire.com/ -- Nutraland USA, Inc., a leading supplier of sustainable, clean-label, science-backed dietary ingredients, today announced the publication of a peer-reviewed clinical study evaluating AKK001™, a pasteurized Akkermansia muciniphila postbiotic, in combination with tributyrin. Published in Alternative Therapies in Health and Medicine, the randomized, placebo-controlled trial examined body morphology measures, metabolic indicators, and selected safety parameters among adults with overweight or obesity who received the AKK001™ and tributyrin combination.

> This study marks an exciting step forward in the clinical research on pasteurized Akkermansia muciniphila,"
>
> *Gene Bruno, Chief Scientific Officer, Nutraland USA, Inc.*

The study, titled "Akkermansia muciniphila 001 (AKK001™) Postbiotic and Butyrate (Tributyrin) Impact on Body Morphology Measures and Metabolic Indicators in an Overweight Population: A Randomized, Controlled Trial," evaluated 60 otherwise healthy adults with overweight or obesity. Participants were randomly assigned to receive either placebo or one capsule daily containing 1.5×10^{10} TFU of pasteurized AKK001™ plus 150 mg of butyrate as tributyrin for 90 days.

Study Findings Across Body Morphology and Metabolic Measures

At 90 days, the investigators reported statistically significant between-group differences across the study's primary body morphology measures and several secondary metabolic outcomes. Reported findings included:

- Lower mean body weight and body fat percentage compared with placebo at 90 days (75.3 vs. 82.5 kg and 25.6% vs. 29.8%, respectively)
- Lower waist circumference and ultrasound-measured abdominal fat thickness compared with placebo
- Favorable differences in glucose regulation and lipid metabolism, including total cholesterol of 166.3 vs. 189.5 mg/dL compared with placebo at 90 days
- Higher estimated basal metabolic rate compared with placebo at 90 days
- No significant differences between groups in measured liver, kidney, or thyroid function parameters after one or three months

The findings add to the emerging clinical research on pasteurized Akkermansia muciniphila and support further investigation of AKK001™-based formulations in metabolic health. As AKK001™ was administered with tributyrin, additional studies will help characterize its individual contribution and the biological mechanisms underlying the observed outcomes.

"This study marks an exciting step forward in the clinical research on pasteurized Akkermansia muciniphila," said Dr. Gene Bruno, Chief Scientific Officer of Nutraland USA and primary author of the study. "The breadth of outcomes observed with the AKK001™ and tributyrin combination provides a strong foundation for continued research into the role of postbiotics in microbiome-focused approaches to metabolic health."

Postbiotic Ingredient Characteristics and Formulation Relevance

AKK001™ is a pasteurized form of Akkermansia muciniphila, a microorganism studied in connection with gut barrier function and metabolic physiology. Produced through controlled fermentation followed by pasteurization, AKK001™ contains no viable bacteria and provides stability and formulation flexibility for use by dietary supplement, functional food, and beverage manufacturers developing microbiome-focused products.

The study was funded by Youthorin Biotechnology Co., Ltd., which supplied the AKK001™ and Butyrate study material. Nutraland USA serves as the exclusive North American distributor of AKK001™.

The full peer-reviewed manuscript is available at:
https://innovisionhm.com/journalslibrary/viewarticle.asp?pubid=2&file=11884%2Epdf

For technical and commercial information about AKK001™ for use in finished-product development, visit www.nutralandusa.com or contact sales@nutralandusa.com.

About Nutraland USA
Nutraland USA is a leading supplier of premium, science-backed ingredients for the dietary supplement, functional food, and beverage industries. Committed to innovation, quality, and sustainability, Nutraland partners with brands to deliver cutting-edge nutritional solutions that support health and wellness worldwide.

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