

NutriKane D™ FOR LOWER BLOOD SUGAR LEVELS

A natural treatment to Lower & Control Blood Sugar Levels

MediKane has sourced high quality foods from trusted sources, analysed their nutritional and medical value, then formulated them into a therapy. We then specifically test the product that is in our sachet – in exactly the same way a pharmaceutical company would develop a new drug. In the last 7 years we have partnered with 3 of Australia's most prestigious universities and run 3 clinical trials with a major teaching hospital that proved the effectiveness of NutriKane D in treating intestinal disorders, and improving blood sugar management. Even more important our products have been extensively used "in the field" by healthcare professionals who have found that adding NutriKane D to a patients' normal lifestyle results in a better Quality of Life. Our commitment to good science and real products continues with 5 clinical trials and 4 new products planned.



NutriKane D is a safe, natural medical food provided in an easy to use sachet dose. It contains all of the types of dietary fibre (not just simple soluble fibre), resistant starch and a wide range of essential micronutrients that have been shown to not only aid the maintenance of the microbiome but also reduce inflammation and in doing so help control blood sugar levels.

MediKane Holdings markets NutriKane D. MediKane takes a *farmerc eutical* approach to blend nature and science, creating a real, complex food with a controlled dosage to obtain scientifically proven results for our customers.

NutriKane D Product Summary

1

NutriKane D is clinically and scientifically proven to treat diabetes by not only lowering but also improving control of Blood Sugar Levels (BSLs).

2

It improves insulin sensitivity which means less insulin is required. It has been shown to slow long-term deterioration of symptoms and control of blood sugar levels.

3

NutriKane D utilises 3 different Modes of Action each of which directly assists management of BSLs. Being a complex food multiple factors impact each pathway.

4

Unlike simple supplements, NutriKane D contains soluble and insoluble fibres, resistant starches, antioxidants and essential minerals, all in bio-available forms the body needs to manage BSLs and improve the microbiome.

5

NutriKane D can provide an essential part of what is often missing from a healthy diet.

6

NutriKane D directly promotes good intestinal health. It is well known to the medical community that a healthy microbiome has positive effects not only on BSLs but a range of conditions from weight loss to mental health.

The goal is to continue development and deliver a true diabetes cure. A current collaboration with prominent Australia Universities and a Sydney hospital has shown this result may be within reach.

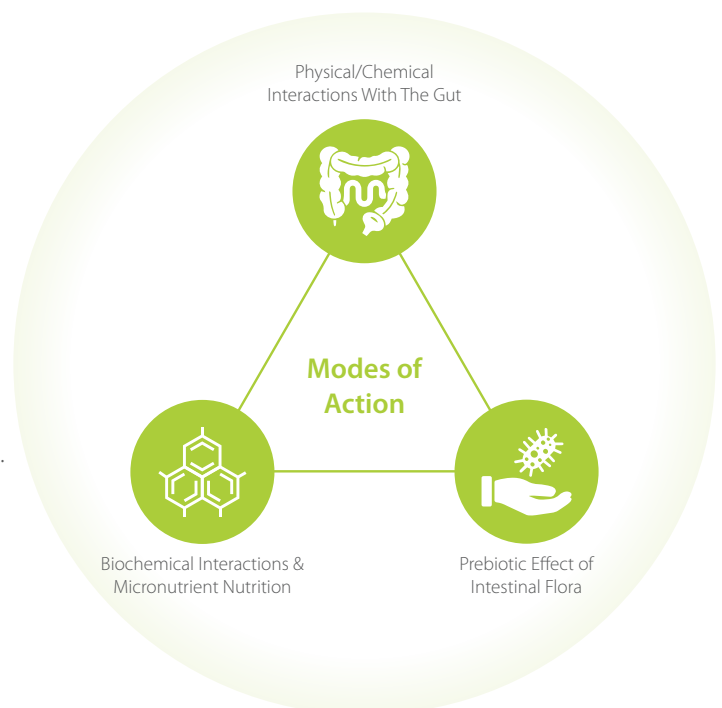
Key Mechanisms

NutriKane D generates a complex combination of effects that produce the overall health outcomes.

There are three basic classes of Modes of Action:

- Physical/chemical interactions with the gut.
- Direct absorption of biochemically active micronutrients.
- Prebiotic effect on intestinal flora.

There are multiple actions underpinning these three interactions. The combination of effects is the key.



Publications, Trials & Presentations					
	Focus	Title	N*	Publication	Summary of Outcomes
1	Diabetes Management	Efficacy of a defined food product (NutriKane D™) in improving blood sugar level and bowel dysfunction in adult diabetic subjects: a randomised controlled trial.	51	Physical and Rehabilitation Medicine journal international. Peer reviewed Journal.	<ul style="list-style-type: none"> • Significant drop in fasting glucose levels under a controlled hospital stay. This improvement was maintained more effectively when the patients went home (compared to hospital care alone). • Significant reduction in Body Mass Index whilst in the hospital. • HbA1c reduced in just 3 weeks (average). • Over 70% of participants were happy with NutriKane D (compared to less than 50% for medications).
2	Hospital Opioid Induced Constipation	Evaluation of the structured bowel management program in inpatient rehabilitation: a prospective study ¹¹ .	100	Journal of Rehabilitation Medicine. 2015 Sep 3;47(8):734-40. doi: 10.2340/16501977-1999.	<ul style="list-style-type: none"> • 63% of participants were displaying constipation even though they were using current treatments including fibre supplements and stimulant laxatives. • 85% of participants experienced improvements in bowel function and overall wellbeing as a result of the trial. • Cognitive function and overall quality of life was also increased as a result of the intervention.
3	Intestinal & Digestive Health	Rehabilitation outcomes in persons with spina bifida: a Randomized controlled trial ¹² .	54	Journal of Rehabilitation Medicine. Peer Reviewed Journal, October 2015.	<ul style="list-style-type: none"> • The NutriKane D group experienced significant improvement in bowel function, cognitive function and overall quality of life compared to the control group. • 55% of participants in the control group reported improved bowel function with NutriKane D use after the direct intervention stage had ceased.
4	Modes of Action to improve management of blood sugar levels	3 x PhD theses on microbiome interactions, anti-inflammatory effect, and nutrient composition.		<p>Bucio-Noble D. Nutraceutical properties of whole dried sugarcane extracts studied by proteomics. 2017, PhD thesis, Macquarie University, Sydney, Australia.</p> <p>Gamage, H. K. A. H. Investigating the impact of dietary fibre on the gut microbiota. 2017, PhD thesis, Macquarie University, Sydney, Australia.</p> <p>Chong, R. W. W. Investigating the influence of dietary fibre on intestinal health. 2018, PhD Thesis Macquarie University, Sydney Australia.</p>	<ul style="list-style-type: none"> • Proven positive effect on the microbiota in the intestines which in turn produces secondary nutrients (short chain fatty acids) that improve blood sugar control and reduce inflammation. • Identified anti-inflammatory pathways and determination that they are different from those found in resveratrol. • Identification of several essential micronutrients and proof that they are bound to the matrix in a biologically active form. • Identification of disease specific improvements to blood sugar management and inflammation. • Proof that including NutriKane D into an intermittent fasting diet maintains healthy microbiome resulting in better health for people looking to improve BSL management. • Proof that consuming NutriKane D results in changed interactions between the gut microbiome and the intestinal wall that results in modified signalling in the body.

* Number of participants



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Minerals	mg/kg	% RDI per serve	Benefit
Chromium	7.6	88.67%	Essential to blood glucose management and insulin sensitivity
Selenium	2.4	12.92%	Antioxidant, essential to enzyme function
Iron	217	5.84%	Essential to haemoglobin
Molybdenum	0.4	7.78%	Essential component for the bodies detoxification enzymes
Potassium	541	0.06%	Essential to neural function
Sodium	15	0.01%	Essential to neural function
Zinc	21.7	0.25%	Essential to immune system and enzymatic function
Magnesium	795	0.75%	Multiple functions including sugar metabolism and insulin sensitivity, muscle and enzyme function
Manganese	123	8.20%	Essential for bone formation and the metabolism of carbohydrate and amino acids
Calcium	690	0.21%	Essential for bone development. Important for enzymatic function
Silica	175	*	Essential for bone and connective tissue development. Aids in the absorption of other minerals. *No RDI has been determined though maximum tolerance is 30mg.
Copper	17.5	4.22%	Essential for Iron utilisation, connective tissue and the immune system

**All ingredients are tested for purity and presence of nutrients with each production run to guarantee efficacy.
Recommended Daily Intake / Adequate Intake values are the average of male and female - NHMRC**

NUTRITIONAL INFORMATION		
Serving size: 6.5g		
	Ave Qty Per Serve	Ave Qty Per 100g
Energy	65 kJ	973 kJ
Protein	0.3 g	3.9 g
Fat, Total	0.1 g	1.9 g
- saturated	0.0 g	0.2 g
Carbohydrate	1.7 g	22.3 g
- sugars	0.1 g	1.2 g
Dietary Fibre	3.4 g	44.7 g
Gluten	Not Detected	Not Detected
Sodium	1 mg	17 mg
		RDI
Vitamin C	70 mg	150%
Vitamin A *	500 µg	25%

* As β-carotene; a natural source of pro-vitamin A found in vegetables such as carrots, with no known toxicity.

Directions for Use

Pour sachet contents into a glass and add approximately 250ml of water, stir thoroughly and drink before or during a meal. Add additional water to reduce the natural sweetness if required. Alternatively, NutriKane D can be stirred into juice, yoghurt or smoothies.

The recommended dose is:

- **Adults:** Take one sachet twice a day before or during meals.
- **Children 5-11 years:** Take one sachet once a day before or during a meal.
- **Children under 5:** Not recommended for children under 5, although there is no evidence that it will adversely affect them in any way.

Ingredients

Sugarcane fibre (sucrose reduced), Red Sorghum, Citric Acid (acidity regulator), Stevia (natural sweetener), Natural Gums and Flavour.

NutriKane D contains NO Artificial colours, flavours, preservatives or chemical stimulants. NutriKane D is Gluten free and each serve contains 12% RDI of dietary fibre.

References

Representative References below; for a full list of references please visit www.nutrikane.com.au

1. Amaty, B. et al. (2015). "Evaluation of the structured bowel management program in inpatient rehabilitation: a prospective study." *Disabil Rehabil*: 1-8.
2. Bucio-Noble, D. (2018). "Nutraceutical properties of whole dried sugarcane extracts studied by proteomics." *Molecular Sciences*. Sydney Australia, Macquarie University. PhD: 233.
3. Bucio-Noble, D. et al. (2018). "Polyphenol extracts from dried sugarcane inhibit inflammatory mediators in an in vitro colon cancer model." *J Proteomics* 177: 1-10.
4. Chong, R. W. W. (2019). "Investigating the influence of dietary fibre on intestinal health." *Molecular sciences*, Macquarie University 258.
5. Chong, R. W. W. et al. (2019). "Comparing the chemical composition of dietary fibres prepared from sugarcane, psyllium husk and wheat dextrin." *Food Chem* 298: 125032.
6. Gamage, H. et al. (2018). "Fiber Supplements Derived From Sugarcane Stem, Wheat Dextrin and Psyllium Husk Have Different In Vitro Effects on the Human Gut Microbiota." *Front Microbiol* 9: 1618.
7. Gamage, H. K. A. H. (2018). "Investigating the impact of dietary fibre on the gut microbiota." *Macquarie University PhD*: 288.
8. Holt, S. et al. (2003). "A bioflavonoid in sugar cane can reduce the postprandial glycaemic response to a high-GI starchy food."
9. Khan, F. et al. (2015). "Rehabilitation outcomes in persons with spina bifida: A randomised controlled trial." *J Rehabil Med*.
10. Lee, S. Y. et al. (2018). "Efficacy of Dietary Sugarcane Product on Bowel Function and Blood Sugar Level in Adult Diabetic Patients: A Randomised Controlled Trial."