



Fagron NutriGen

Professional nutrigenomic counselling

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Fagron NutriGen is an innovative nutrigenomic algorithm for personalizing nutrition, supplementation and weight loss planning.

Nutrigenomics

Nutrigenomics is the science analyzing and understanding how an individual's genetic makeup responds to dietary intake.



“Inherited risk factors determines 40-70% of individual BMI¹⁻².”

Intended use

Fagron NutriGen is intended to assist health professionals in making specific care decisions to prevent hereditary health risks. It analyses 109 genetic predispositions with a significant impact on health and nutrition-related parameters and combines this data with the analysis of patient's anamnesis to recommend the most appropriate health and nutritional advice.

Patient's motivation

Research has shown that personalized DNA-based dietary counselling can increase motivation and enhance diet compliance compared to general guidelines^{2,3}.

What is evaluated?

Fagron NutriGen combines the analysis of 109 health and nutrition-related genetic predispositions (obesity, diabetes, triglycerides, celiac diseases, responses to exercise and interventional diets, vitamin & mineral deficiencies, among others) with relevant patient's anamnesis (intolerances, diseases, medication, blood pressure, physical activity and habits, among others).

The suggested diet plan considers the following predispositions:

Overweight & obesity

Emotional eating

Increased triglycerides

Type 2 diabetes risk

Cholesterol dysregulation

Response to interventional diets

Vitamin & mineral deficiencies

Lactose and fructose intolerance

Celiac disease

Among others

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Our panel of 109 genetic tests is exclusively based on peer reviewed replicated studies. Genotyping assay is based on the DNA microarray technology guaranteeing more than 99% of reproducibility and sensibility.

A multidisciplinary team of medical doctors, nutritionists, pharmacists, geneticists and programmers, following highest quality standards, was involved in the development and validation of the Fagron NutriGen algorithm.

Nutritional values were selected from the European Food Information Resource, authoritative source of food composition data for nutrients, and bioactive compounds with potential health benefits.

Active ingredients and dosages from the TRC Natural Medicines Database, the most authoritative resource on dietary supplements, herbal medicines, and complementary and integrative therapies, were also included.

The company is applying for *in vitro* medical device license under the EU 2017/746 regulation.



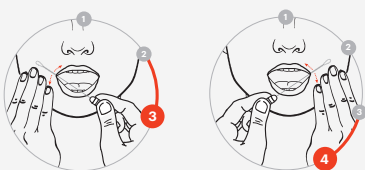
Fagron NutriGen procedure

Kit content:

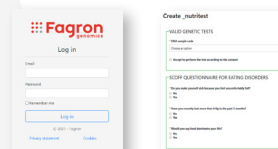
- 1x Swab tube
- 2x Patient consent form
- 1x Instructions
- 2x ID-labels
- 1x Biohazard bag
- 1x Shipping Courier bag



1. Collect the DNA sample according to the instructions.



2. Register the kit and complete the patient questionnaire online at www.fagrongenomics.com



3. Send the sample following the process agreed with your sales representative.



4. Results are provided in 4-5 weeks.



Fagron NutriGen report

Once patient's **questionnaire is complete** and genetic data available, **reports** can be **viewed and downloaded** from a **secure personal area**. Our digital healthcare platform **meets the requisite regulatory and data protection** standards.

Report includes:



Summary of patient characteristics



Full genetic analysis and explanation



Suggested 3-phase personalized supplementation plan

References

1. Goordazi MO. Lancet Diabetes Endocrinol. 2018;6(3):223-236.
2. Maes HH, et al. Behav Genet. 1997;27: 325-51.
3. Ordovas JM, et al. BMJ. 2018;13:361:bmj.k2173.

LEGAL DISCLAIMER

Fagron Genomics, S.L.U carries out genetic tests upon request by healthcare professionals, in relation to biological samples from patients obtained by the healthcare professional. Our tests do not replace a medical consultation, nor do they make up a diagnostic or treatment, nor should they be interpreted this way. Only healthcare professionals can interpret the results of said tests, based on their knowledge of the clinical records of the patients and other relevant factors and, under their responsibility, give a diagnostic or prescribe treatment to the patient. We decline all responsibility derived from the use and interpretation of the results of our tests by the solicitant healthcare professional.

Fagron Genomics, S.L.U expressly reserves any legal actions in case of an inappropriate, negligent or incorrect use or interpretation of the results of our tests. It is the responsibility of the healthcare professional who requests a test to guarantee to the patient the appropriate genetic advice as foreseen by Law 14/2007, of 3rd July, of biomedical research. As Fagron Genomics, S.L.U does not have access to the personal identifiable information about the patient from whom the sample comes, it is the responsibility of the requesting healthcare professional to comply with the applicable data protection Laws and regulations.