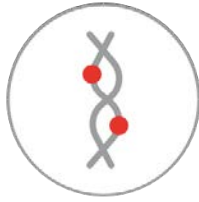




NutriGen™

Professional Nutrigenomic Advice

· Brief Results Report



Patient report

Disclaimer

METHODOLOGY AND LIMITATIONS: Testing for genetic variation/mutation on listed genes was performed using Real-Time PCR with TaqMan® allele-specific probes on the QuantStudio 12K Flex. All genetic testing is performed by GX Sciences, 4150 Freidrich Lane, Ste H, Austin, TX. 78744. This test will not detect all the known alleles that result in altered or inactive tested genes. This test does not account for all individual variations in the individual tested. Test results do not rule out the possibility that this individual could be a carrier of other mutations/variations not detected by this gene mutation/variation panel. Rare mutations surrounding these alleles may also affect our detection of genetic variations. Thus, the interpretation is given as a probability. Therefore, this genetic information shall be interpreted in conjunction with other clinical findings and familial history. Patients should receive appropriate genetic counseling to explain the implications of these test results. The analytical and performance characteristics of this laboratory-developed test (LDT) were determined by GX Sciences' laboratory pursuant to Clinical Laboratory Improvement Amendments (CLIA) requirements. CLIA #: 45D2144988 Laboratory Director: James Jacobson, PhD **DISCLAIMER:** This test was developed and its performance characteristics were determined by GX Sciences. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA and qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research. rsIDs for the alleles being tested were obtained from the dbSNP database. **DISCLAIMER:** Report contents and report recommendations are created based on the consultation, advice, and direction of Dr. Kendal Stewart, Medical Director for GX Sciences. Sole responsibility for the proper use of the information on the GX Sciences report rests with the user, or those professionals with whom the user may consult. Report contents and report recommendations are intended to be informational only. Report contents and report recommendations are not intended and should not be interpreted to make claims regarding the use, efficacy, or safety of products, formulas, and/or services listed herein. Only a doctor or other appropriately licensed health care professional, as a learned intermediary, can determine if a formula, product, or service described herein is appropriate for a specific patient. Sole responsibility for the proper use of the information on the GX Sciences report rests with the user, or those professionals with whom the user may consult. **DISCLAIMER:** These products are not approved by the Food and Drug Administration and are not intended to diagnose, treat, cure, or prevent disease. These recommendations are for informational purposes only and an individual is not required to use such products. These are recommendations only and do not replace the advisement of your healthcare practitioner. This test is NOT for diagnostic purposes. It may identify general health risks that are associated with genetic variations but does NOT indicate a propensity for or susceptibility to any illness, disease, impairment, or other disorders, whether physical or mental.



Patient name —●— API TEST 2

Date of birth —●— 01-02-2000

Sample code —●— NUT09258AA

Doctor's name —●— Doctor GX

Reception date —●— 05-17-2021

Results date —●— 05-17-2021



How to read and use the NutriGen™ patient's report

1. Important genetic results

Summary of the categories where your genes have an important impact on your health and weight. For each category presented, we show you the final score for your own predisposition to have an impact on it and a brief description of what this means.

2. Recommended diet type

In case of following a weight loss intervention, we depict here our recommendation on the type of diet that will be optimal for you to succeed in your strategy. You will get a score showing the percentage of efficiency. The graph reads red for low efficiency and green for high efficiency.

3. Intolerance risk

Here you can find how high is your genetic risk of intolerance to specific products (lactose, alcohol, gluten, caffeine and fructose) that might shape your future diet. Legend reads from green (low risk of intolerance) to red (high risk of intolerance).

4. Vitamin and mineral deficiency risk

This section shows your predisposition to suffer from deficiency in vitamins and minerals, based in your genetic profile, allowing to elaborate a plan on your supplementation needs. Legend reads from green (low risk of intolerance) to red (high risk of intolerance).

5. The best food supplements

This section includes an overview of the recommended supplements, distributed in 3 phases to ensure the supply of all your nutritional needs in the future. Your doctor or health specialist will set the duration of each phase for you based on your clinical condition and treatment evolution.

- Phase 1 – Detox: Detoxification of parasites and pinworms, intestinal dysbiosis and cellular oxidative state.
- Phase 2 – Restructuring: Cell and tissue restructuring at all levels and covering of mineral, vitamin and trace element deficiencies according to the diagnose of patient's needs.
- Phase 3 – Supplementation: Supplementation and recovery of the optimal state at all levels: cellular, tissue, immune, bone-muscular, psycho-neuronal and endocrine.

6. Top 5 food categories

Made from your genetic and health/behavior data. List of the 5 best foods you can eat per category, to help you with a hands-on list of foods for you. Food is suggested from the results of the test performed by GX Sciences.

7. Distribution of daily intake of foods

In this graph you can visualize the optimal proportion of fats, proteins and healthy carbohydrates intake on a daily basis, based in your genetic profile.

8. Physical activity

This section shows the expected benefits of exercise in improving your cholesterol HDL levels and reducing body fat according to your genetic results. The graph reads from green (high benefits expected) to red (low benefits expected).

9. Recommended calories

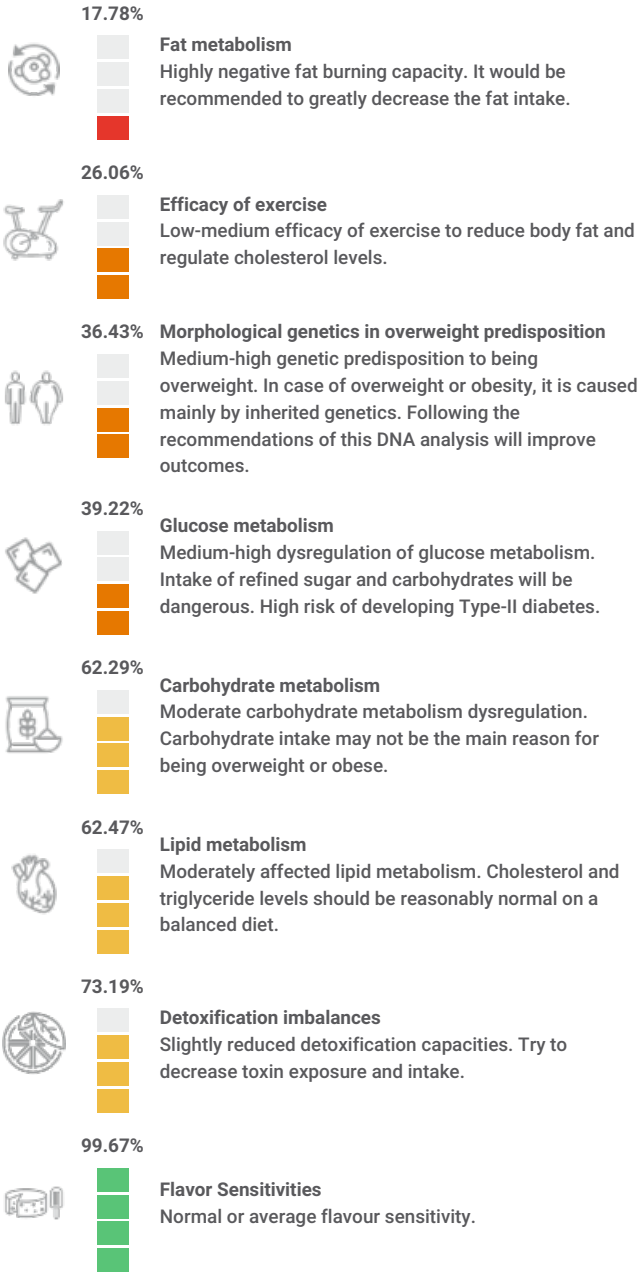
Our recommendation for your daily calorie intake, inferred from your BMI and gender. This calculation is a suggestion, consultation with your health care provider is recommended.

10. Complete genetic results

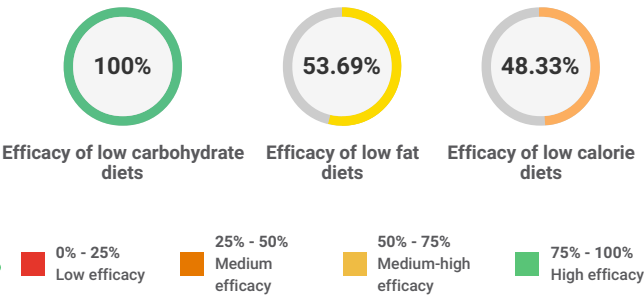
This table includes a complete description of all the analyzed SNPs within the NutriGen™ both at gene and SNP level, your genetic variant and the risk it confers to each category of our test.



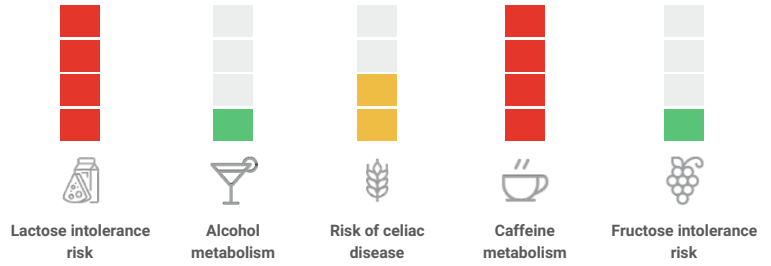
01 Important genetic results



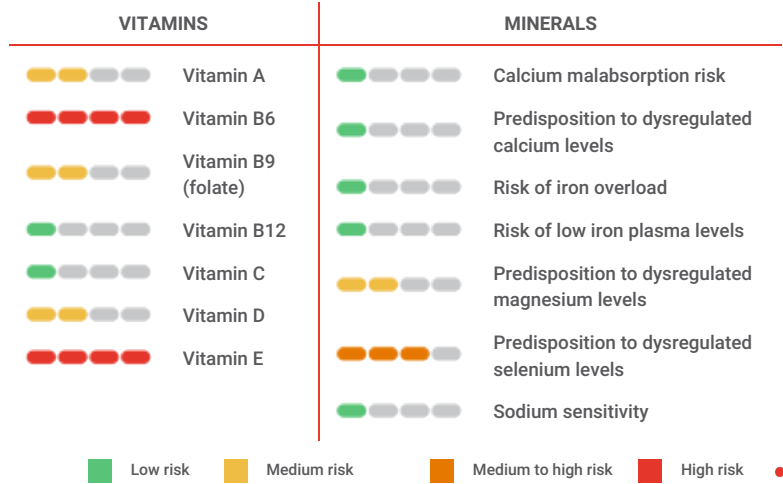
02 Matching Diet Type



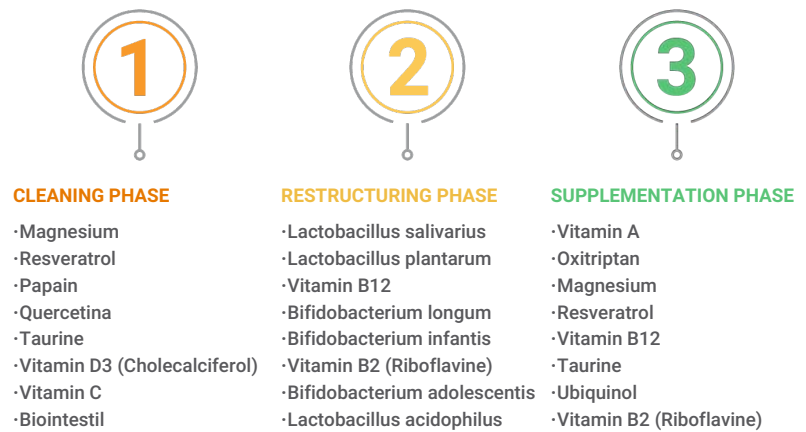
Intolerances risk 03



Vitamin and Mineral deficiency risk 04



The best food supplements 05



*These recommendations are based only in the analysis of your genetic test. Always seek the advice of your physician or other qualified health specialist before proceeding with any nutritional or dietary modifications.



Vegetables

- Broccoli, boiled
- Turnip, peeled
- Arugula
- Mushroom, griddle
- Cabbage, white



Legumes and derivatives

- Tofu
- Soy flour
- Soybean, dry, soaked, boiled
- White bean, tinned
- Pinto bean, steeped, boiled



Fruits and derivatives

- Avocado
- Blueberry
- Tangerine
- Pineapple
- Olive



Cereals and derivatives

- Quinoa
- Wheat germ
- Wholewheat flour
- Wheat, bran
- Millet



Fish and derivatives

- Mackerel
- Sea bream
- Salmon
- Salmon, griddle
- Halibut



Meats and derivatives

- Pork, sirloin, roasted
- Liver, beef
- Turkey, breast, without skin, grilled
- Quail, cooked
- Pigeon, part n/e, without skin, roasted



Nuts and seeds

- Lupin
- Sunflower seeds
- Almond
- Cashew nut
- Pumpkin seeds



Shellfish and derivatives

- Cuttlefish
- Lobster, boiled
- Squid, roasted
- Octopus, boiled
- Cockles



Eggs and derivatives

- Egg, chicken, poached
- Egg, chicken, boiled
- Egg, chicken, white
- Egg, duck
- Egg, turkey



Milk and derivatives

- Gouda cheese
- Coconut milk
- Parmesan cheese
- Cheese, edam type
- Almond milk



Vegetables

- Aubergine, fried, in sunflowerseed oil
- Tomato, ripe, peeled and ground, canned



Legumes and derivatives

- Soya, fried



Fruits and derivatives

- Chayote
- Syrup peach
- Date
- Coconut, dried
- Figs



Cereals and derivatives

- Rye flour
- Doughnut
- Doughnut, with chocolate
- Cookie, digestive type, with chocolate
- Cookie, with chocolate



Fish and derivatives

- Mackerel, baked
- Sardine, roasted
- Mackerel, canned in oil, drained
- Smoked salmon
- Turbot



Meats and derivatives

- Pork, not specified part
- Foie gras
- Hen
- Liver, chicken
- Liver, pork



Nuts and seeds

- Almond, toast
- Pine nut
- Hazelnut
- Pistachio nut
- Almond, fried, salted



Shellfish and derivatives

- Squid in vegetable oil
- Scallop
- Oyster



Eggs and derivatives

- Egg, chicken, yolk
- Egg, quail
- Egg, chicken, fried
- Egg, scrambled, with butter



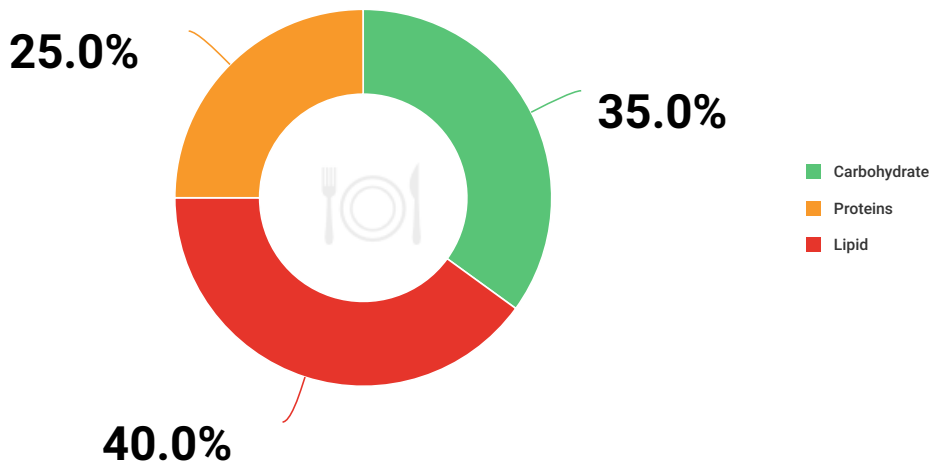
Milk and derivatives

- Mozzarella cheese
- Egg custard
- Strawberry ice cream
- Fresh cheese
- Cottage cheese

Daily food intake

07

Distribution according to your results



ABOUT

From the results obtained in the analysis, your dietary habits and your general information, our genetic and nutritionist adviser team have determined a personalized plan with nutritional and dietetic recommendations.



1 Make the 3 main meals of the day and in their hours



2 Make 2 small snacks of fruit and nuts according to recommendations: 11am - 5pm

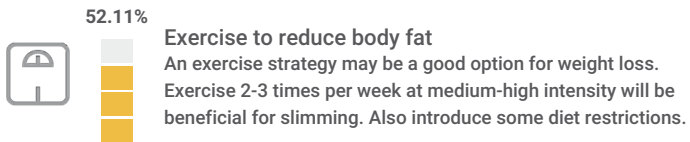
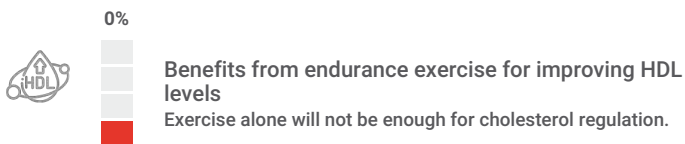


3 Drink water 1.5 - 2 L / day before and between main meals

Physical activity

08

According to your results



■ Low benefit
 ■ Medium benefit
 ■ Medium-high benefit
 ■ High benefit

Calories

Recommended calories

09



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GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Genetic risk of overweight	MC4R-1	rs2229616	CC	■
	SH2B1-2	rs7498665	AA	■
	FTO-1	rs9939609	AT	■
	FTO-2	rs1121980	AG	■
	MC4R-2	rs17700633	GA	■
Risk of rebound weight gain	ADIPOQ	rs17300539	GG	■
Risk of increased BMI	MC4R-3	rs12970134	AA	■
	MC4R-4	rs17782313	CC	■
	SH2B1-1	rs4788102	GG	■
Basal metabolic rate (burn calories at rest)	FABP2	rs1799883	CT	■
	LEPR-4	rs2025804	AA	■
Weight loss capability during diet interventions	ACSL5	rs2419621	CT	■
Appetite and anxiety risk	COMT	rs4680	AG	■
	NMB	rs1051168	GG	■
	DRD2-1	rs1800497	AG	■
	MC4R-1	rs2229616	CC	■
	DRD2-2	rs6277	AA	■
	Satiety: Feeling Full	FTO-1	rs9939609	AT
Benefits from endurance exercise for improving HDL levels	PPARD	rs2016520	TT	■
Exercise to reduce body fat	FTO-1	rs9939609	AT	■
	FTO-2	rs1121980	AG	■
	LIPC	rs1800588	CC	■
	LEP	rs7799039	AG	■

GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Response to monounsaturated fats (MUFAs)	ADIPOQ	rs17300539	GG	■
Response to polyunsaturated fats (PUFAs)	PPAR-Y	rs1801282	CG	■
	FADS1	rs174547	CT	■
Response to fat intake to improve the HDL levels	LIPC	rs1800588	CC	■
Capability to digest starchy food	AMY1-AMY2	rs11577390	CC	■
	AMY1	rs4244372	TT	■
Refined carbohydrate sensitivity	FABP2	rs1799883	CT	■
Carbohydrates and HDL levels predisposition	KCTD10	rs10850219	GG	■
Carbohydrates and LDL levels	MMAB	rs2241201	CC	■
Predisposition to reduced HDL levels	APOA5	rs662799	AA	■
	CETP	rs5883	CC	■
Predisposition to increased levels of triglycerides	PPAR-Y	rs1801282	CG	■

Indications

■ Negative effect

■ Medium effect

■ Positive effect

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GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Predisposition to increased oxidation of LDL	APOB-2	rs676210	AA	■
	CELSR2	rs12740374	GT	■
Risk of increased cholesterol LDL levels	HNF1A	rs2650000	CC	■
	LDLR	rs6511720	GG	■
	ABCG8	rs6544713	CC	■
Risk of unbalanced Triglycerides/HDL ratio	HMGCR	rs3846663	TT	■
Risk of increased glucose levels in plasma after fasting	PLIN1	rs2289487	CT	■
	GHSR	rs490683	GG	■
Risk of insulin resistance	PPAR-Y	rs1801282	CG	■
	ADIPOQ	rs17300539	GG	■
	TCF7L2-2	rs7903146	CC	■
	FTO-1	rs9939609	AT	■
	FTO-2	rs1121980	AG	■
Risk of Type-II diabetes	PPAR-Y	rs1801282	CG	■
	PLIN1	rs2289487	CT	■
	TCF7L2-2	rs7903146	CC	■
	FTO-1	rs9939609	AT	■
	MC4R-2	rs17700633	GA	■
	CDKN2A/B	rs10811661	CT	■
	KCNQ1	rs2237892	CC	■
Bitter taste sensitivity	TAS2R38-1	rs1726866	AG	■
	TAS2R38-2	rs713598	CG	■
Salt sensitivity	ACE	rs4343	AG	■
Sweet flavor preference	SLC2A2	rs5400	GG	■

GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Antioxidant capability	GPX1	rs1050450	GA	■
	NQO1	rs1800566	AG	■
	COMT	rs4680	AG	■
	SOD2	rs4880	AA	■
	CYP1B1	rs1056836	CC	■
	CYP1A1-2	rs1048943	TT	■
Calcium malabsorption risk	GSTP1	rs1695	AG	■
	CYP2R1-1	rs10766197	AG	■
	GC	rs2282679	TT	■
Predisposition to dysregulated calcium levels	DGKD	rs1550532	GG	■
	CYP24A1	rs1570669	AA	■
	CASR-1	rs17251221	AA	■
	CASR-2	rs1801725	GG	■
	CARS	rs7481584	GG	■
	GCKR	rs780094	TT	■
Risk of iron overload	HFE	rs1800562	GG	■
Risk of low iron plasma levels	TF-1	rs3811647	GG	■
	TMPRSS6	rs4820268	AA	■
	TF-2	rs8177253	CC	■
Predisposition to dysregulated magnesium levels	CASR-1	rs17251221	AA	■
	TRPM6	rs11144134	TT	■
	SHROOM3	rs13146355	AA	■
	DCDC5	rs3925584	CC	■
Predisposition to dysregulated selenium levels	MUC1	rs4072037	TT	■
	AGA	rs1395479	AA	■
Sodium sensitivity	SLC39A11	rs891684	GG	■
Lactose intolerance risk	ACE	rs4343	AG	■
	MCM6-1	rs182549	CC	■
	MCM6-2	rs4988235	GG	■

Indications

■ Negative effect

■ Medium effect

■ Positive effect

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GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Alcohol metabolism	ALDH2	rs671	GG	■
Risk of celiac disease	IL2/IL21-1	rs6822844	GT	■
	HLA-2	rs2395182	TT	■
	IL2/IL21-2	rs13119723	AG	■
	HLA-4	rs4713586	AA	■
	HLA-5	rs7454108	TT	■
	HLA-6	rs7775228	TC	■
Caffeine metabolism	CYP1A1-1	rs2470893	CT	■
	CYP1A2	rs762551	CA	■
Fructose intolerance risk	ALDOB-1	rs1800546	CC	■
	ALDOB-2	rs76917243	GG	■
Efficacy of low calorie diets	PPAR-Y	rs1801282	CG	■
	ADIPOQ	rs17300539	GG	■
	LEPR-1	rs1805134	CT	■
	ACSL5	rs2419621	CT	■
	ADRB2	rs1042714	CG	■

GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Efficacy of low carbohydrate diets	KCTD10	rs10850219	GG	■
	MMAB	rs2241201	CC	■
Efficacy of low fat diets	PPAR-Y	rs1801282	CG	■
	GHSR	rs490683	GG	■
	APOA2	rs5082	AG	■
	SH2B1-2	rs7498665	AA	■
	TCF7L2-2	rs7903146	CC	■
	FTO-1	rs9939609	AT	■

Indications

■ Negative effect

■ Medium effect

■ Positive effect

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Together
we create the future of personalized medicine.

