

MetaCheck Gene Diet

Analysis results





Analysis from 21.03.2025

Thank you very much!

Thank you for choosing our MetaCheck! A sustainable and healthy diet is the basis for health, performance and quality of life. By taking this test, you have taken the first important step towards this. Whether it's weight loss or maintaining a healthy diet, this test will provide you with information about yourself that can help you achieve your desired goal. Before you start implementing your results, please read our notice below.

We wish you much success!

Notice:

Your MetaCheck is a computer-assisted gene metabolism analysis based exclusively on your genetic sample. Other findings already known to you are not included. For the evaluation, only your metabolic genes are analyzed - with the exception of the genes mentioned below. The analyzed genes show different constellations, which are assigned to the individual Meta-types. They do not allow any conclusions to be drawn about relationships. Nor do they allow any conclusions to be drawn about disease risks. The sample material is destroyed after analysis!

Since an increased intake of foods containing gluten and/or lactose may occur in the course of the dietary change, the genes that may be responsible for gluten/lactose intolerance are also analyzed. However, a genetic predisposition unfavorable to gluten/lactose intolerance does not allow the conclusion that such gluten/lactose intolerance does not exist or cannot occur, and a genetic predisposition favorable to gluten/lactose intolerance does not allow the conclusion that gluten/lactose intolerance actually exists or will occur. If the result of your genetic analysis shows a disposition in favor of gluten/lactose intolerance, this was taken into account purely as a precautionary measure in the context of risk minimization in the dietary recommendation with the avoidance or reduction of gluten- and/or lactose-containing food(s).

Also, the gene analysis in this regard and the information provided by CoGAP GmbH for this purpose do not replace medical advice, treatment and/or diagnosis, but only serve to minimize risks when recommending nutrition within the framework of the MetaCheck concept. Please consult a specially trained physician for medical advice, diagnosis and/or treatment, especially nutrition-related health problems, and also for the inclusion of previous findings. When drawing up the respective individual diet plan, attention must be paid to the diet target, taking into account person-specific characteristics (e.g. gender, age, weight, state of health, etc.).







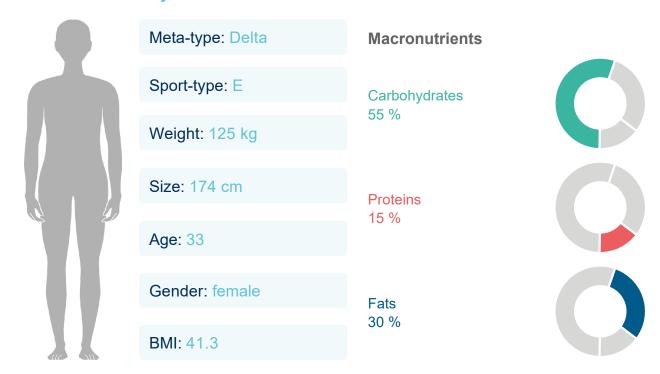
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That's me!

MetaCheck Summary



Your average daily total energy requirement with light physical activities: 2469 kcal

The total energy requirement always consists of your basal and active metabolic rate! The optimal amount of calories for you depends on your calorie consumption at rest (basic metabolic rate) and physical activity (active metabolic rate). Your CoGAP® consultant will be happy to help you determine your exact calorie requirements.

Your different tendencies:

Yo-Yo effect no higher tendency	Saturation no weaker satiety	Loss of muscle mass during a diet no higher tendency
Hunger no stronger feeling	Visceral adipose tissue no higher tendency	

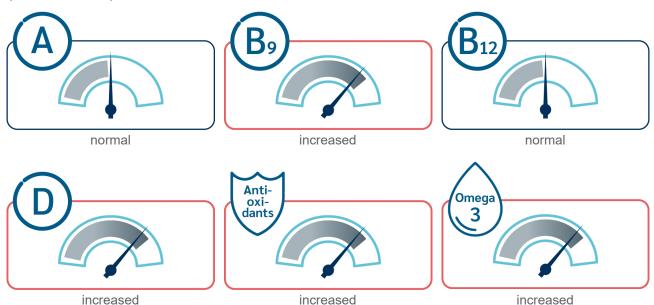


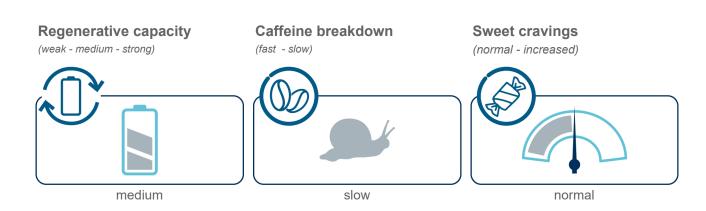


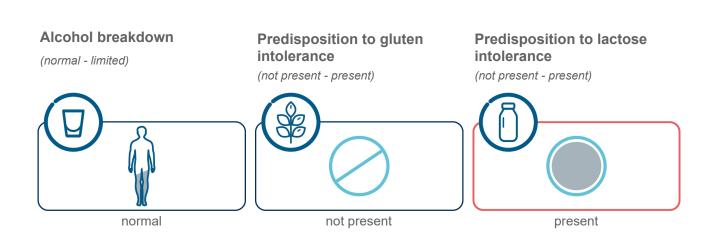


Micronutrient need

(normal - increased)









Introduction

The secret lies in your genes

Are you struggling with being overweight and the associated inconveniences in everyday life? Then you are not alone, because obesity has become one of the greatest challenges facing humankind in the world today. Although many people want to lose weight quickly and healthily, it is very difficult for them to lose weight successfully and, above all, in a sustainable way. Given the overload of dieting solutions, it is not surprising that many people cannot find the right diet for themselves. Should I go low carb? Or reduced fat? How do I know which diet is right for me and, above all, what is good for me? The answer to these questions is as simple as it is ingenious. It is in our genes, and therefore in ourselves!

In addition to a positive energy balance, genetics plays the most important role in the development of obesity. Family studies, including studies of twins and adopted children, have shown that obesity is mainly due to hereditary factors. In other words: **every body functions biologically differently, and there is no patent recipe for losing weight!**



The role of evolution

In the course of evolution, the human body had to adapt to new living conditions time and time again. As hunters and collectors, our early food consisted mainly of protein- and fat-rich foods. For hunting, humans had to be particularly fast and skilfull. Our metabolism at the genetic level adapted to this way of life.

When people began farming and livestock breeding a few thousand years ago, their dietary habits and physical requirements changed. Endurance was now important for the agricultural activity, and our diet consisted increasingly of carbohydrates derived from the crops we grew.

Since the change in our respective ways of life was not carried out by all humans at the same time (even today there are still isolated nomads), the adaptation of genes did not take place at the same speed. As different populations mixed with each other (e. g. within the framework of migration), different genetic metabolism types developed. These are the so-called meta-types, as well as the sport variants.







Test procedure of the MetaCheck

Your MetaCheck helps you identify your personal meta-type and allows you to adapt your nutritional and exercise behavior to your genes. In addition to the factors relevant to weight management, we have analyzed 13 other important elements to help you optimize your diet. We looked at whether you tend to have vitamin deficiencies, whether it is advisable to avoid foods containing lactose and gluten, and how your body reacts to alcohol. Your genes also provide the answer to how you design your exercise plan to burn more calories and build more muscle mass. For this purpose, the genetic material (DNA) of your cheek swab will be isolated and purified in the laboratory. Your DNA will then examined in the laboratory using state-of-the-art sequencing technologies. CoGAP uses a scientific study database which has been created especially for this purpose. It is constantly updated to evaluate the information obtained from this data and analyze it with regard to your meta-type. Since your entire genome (complete DNA) does not have an influence on your metabolism, CoGAP only examines the genes (DNA sections) that are relevant for the determination of your meta-type. These genes include those:



- which are involved in the weight control system
- whose effect on the body can be positively influenced by dietary or behavioural changes
- · which are expressed differently in different people

Since the genes investigated have many different constellations that are attributed to individual meta-types, the latter do not allow conclusions to be drawn about family relationships. Similarly, genes that allow disease-related statements were excluded from the examination.

Quality assurance

The genetic analysis of the MetaCheck samples is carried out by the DNA analytical laboratory of humatrix AG in Pfungstadt, Germany. Since its inception in 2001, humatrix has specialized in human DNA research and has set qualitative standards in the field of private genetic parentage testing. Meanwhile, the company's focus is on personalized medicine. Here, humatrix offers nationwide test systems for the prevention of inefficiencies and side effects in drug therapies in cooperation with physicians and pharmacists.

For humatrix, the highest priority is the quality of the analysis, the certainty of results and the protection of data privacy. The company operates a quality management system according to DIN EN ISO-IEC 17025. The humatrix AG laboratory is accredited for genetic parentage testing (DAkkS D-PL-17498 01-00) and undergoes biannual external quality monitoring by independent institutions. Continuous certifications by the GEDNAP and DGAB (forensics) as well as the INSTAND e.V. (diagnostics) show that humatrix also lives up to its high-quality promises.



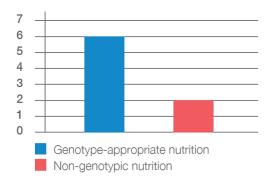


The MetaCheck has proven itself!

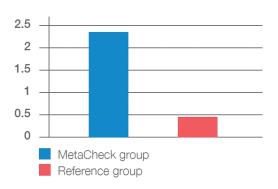
Retrospective studies from the USA show that a gene-based diet that matches the genetic characteristics of the person seeking advice can achieve better results in weight loss than a diet that ignores these physiological properties 1. In order to test the effectiveness of the MetaCheck, a comparative study was carried out at the German Sport University Cologne. A group of subjects adapted their diet and athletic activities to the MetaCheck. The comparative group followed traditional recommendations on weight loss. After 6 – 9 months, the MetaCheck group was significantly more successful than the comparative group. The study participants who were allocated to the MetaCheck group were able to reduce their body mass index by an average of 2.33 points, while the comparative group of subjects showed an improvement of only about 0.43 points 2.

These and other studies have shown that a diet adapted to specific genes is much more successful and sustainable than an arbitrarily selected diet!

[1] Weight reduction (kg) in 12 months



[2] BMI reduction in 6 - 9 months









Nutritional part

Lose weight effectively and sustainably!







Results





A brief summary of your results

Energy Source	Effect	Magnitud	e of effect +
Carbohydrates	positive		
Proteins	negative		
Fats	positive		
Factor	Effect	Speed	Endurance
Exercise	Endurance		

You have the Meta-type Delta and the Sport-type E.



Delta

The meta-type Delta is characterised by the fact that it processes both carbohydrate-containing and fatty foods very well and therefore converts them less strongly into body fat. In this case, the proportion of protein-rich foods should be reduced within the scope of a diet for rapid weight loss, as they are less well metabolized and more strongly stored in the form of body fat.

The optimal diet plan for your meta-type can be found on page 21.



Endurance

Your sport type E means that you will have a more effective and therefore higher calorie consumption in all endurance-based sports (such as jogging, Nordic walking, swimming and rowing) than in high-speed sports.

Detailed information about your sport type can be found on page 33.





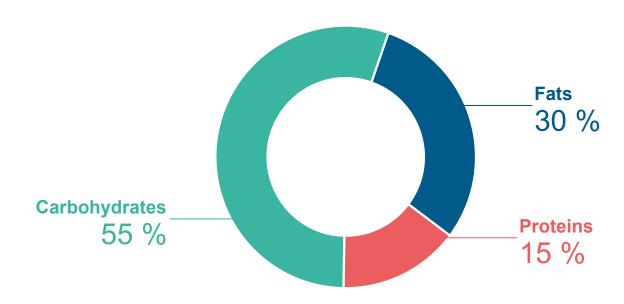




Optimal macronutrient distribution

Phase 1: The first 4 weeks

The following figure shows your macronutrient distribution for the first 4 weeks.



At the beginning of a meta-type dietary change for weight loss, you can use these values to adjust the distribution of energy requirements in the form of macronutrients. We have put together a nutrition plan for you on page 21 so that you can start right away.



Carbohydrates

As a meta-type Delta you more easily metabolize carbohydrate-containing foods compared to the average population. This means that these foods are stored more slowly in the form of fatty tissue in your body. Therefore, a reduction in the amount of carbohydrates (potatoes, pasta, rice, sugar, white flour) is hardly necessary for your diet.

Note that in order to lose weight, you should not only adjust the proportion of carbohydrates in your diet, but also the amount of carbohydrates. However, longer fasting is not recommended, as this can lead to the aforementioned yo-yo effect in addition to hunger attacks due to the dynamics of the metabolism.

Since you metabolise carbohydrates very well, an average increase in the carbohydrate intake above the recommended level is advantageous. For this reason, we recommend that you consume energy from carbohydrate-containing food as follows:



What are carbohydrates?

Apart from proteins and fats, carbohydrates – also known as saccharides – are an essential component of our diet. They are found in foods such as potatoes, pasta, and bread and they provide the human body with important energy.

In contrast to fats, they are used quickly and can thus supply the body with energy in the shortest possible time. Carbohydrates are subdivided into simple and complex carbohydrates. Simple carbohydrates (e. g. in confectionery) provide energy quickly but at short notice, whereas complex carbohydrates (e. g. whole grain products and other starchy foods) release energy more slowly over a longer period of time.





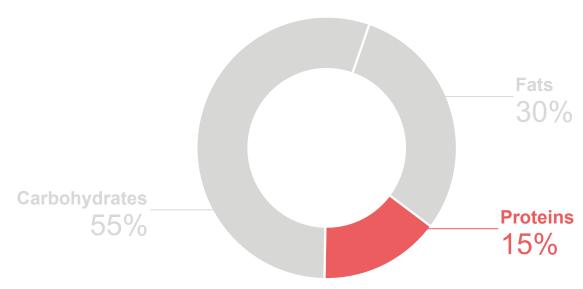


Proteins

The metabolism of protein-rich foods works less well for you as a meta-type Delta, i. e. they are more strongly converted into body fat than carbohydrate-rich foods. The optimal diet for your meta-type should tend not to consist of protein-rich or protein-containing foods (e. g. eggs, legumes, fish, meat, tofu and dairy products).

Please note that if you wish to lose weight, you must first reduce the total amount of food before you adjust the protein content accordingly. However, despite your genetic predisposition, you should not completely go without proteins, as the protein deficiency triggered by this process can have serious consequences in the form of the loss of important cell components and muscle mass.

Because you metabolize proteins less effectively, a medium reduction of the protein intake below the recommended level is advantageous. Therefore, we recommend that you take energy from protein-containing food as follows:



What are proteins?

Proteins are considered to be the most valuable macronutrients in the diet. They consist of amino acids and serve as basic building blocks for all cells in the body. Not only muscle tissue, but also organs, hormones, and messenger substances consist of proteins.

Adequate daily protein intake should be ensured, otherwise the body will break down important muscle tissue. On the other hand, too much protein can lead to health problems. The exact amount of protein required for the human body has remained a mystery for many years. For decades, nutritionists recommended eating only a small amount of protein in food. Today, however, a per day amount of about 0.8 g protein per kilogram of body weight is recommended. On average, however, protein intake in Germany is already above the recommendation, at more than 1 g per kilogram of body weight per day.



Fats

As a meta-type Delta the metabolism of fats works very well for you. This means that when you ingest fats with food, a below-average amount of that fat is converted into body fat. This means that you do not have to go without fatty foods or reduce their share of the diet.

Please note, however, that a very high-fat diet with predominantly saturated fatty acids (animal fats, such as butter) can generally have harmful effects on health. For example, cholesterol, which is mainly derived from animal fats, can accumulate in the arteries and increase the risk of stroke or heart attack.

Therefore, you should avoid saturated fatty acids (animal fats, such as butter) as far as possible and instead eat unsaturated fatty acids (vegetable oils, fish oils) in a ratio of 1:5 (omega 3 to omega 6). Omega 3 fatty acids are found in linseed oil and hemp oil as well as in cold-water fish such as herring, mackerel and salmon. Omega 6 fatty acids are mainly found in animal products and in sunflower, corn and safflower oils.

Because you are able to metabolize fats very well, a medium increase in fat intake is recommended. For this reason, we recommend that you consume energy from fatty foods as follows:



What are fats?

Apart from carbohydrates, fats are the body's most important source of energy. The physiological calorific value of fat is more than double that of carbohydrates and proteins. Fats are also carriers of fat-soluble vitamins, such as A, D, E and K.

As part of a balanced diet, a fat intake of about 60 - 80 g per day is recommended. However, these reference values are guidelines for the maximum absorption of fats. It is quite possible to manage with much less fat in the food. If you want to lose weight, it is precisely through fat that you can save unnecessary calories. Your MetaCheck consultant will be happy to help you determine your individual calorie requirements.







Weight loss factors

Your CoGAP MetaCheck® not only determines your meta- and sports type, but also your tendencies towards the yo-yo effect, loss of muscle mass during a diet, hunger, satiety and visceral adipose tissue. Your analysis revealed the following:



Trend towards yo-yo effect

The onset of new, undesirable and rapid weight gain after a successful diet is called the yo-yo effect. One of the main reasons for this effect, which is partly due to genetic factors, is that over the course of time certain biological mechanisms are activated in the body of overweight people, which aim to regain the highest body weight to date. These mechanisms are also referred to as "anti-weight loss mechanisms".

Compared to the average population, you have no increased tendency to experience the yo-yo effect.

Therefore, you should aim for a weight reduction of up to 1 kg per week. In order to reduce your weight in a sustainable way, we recommend that you change your diet to suit your meta-type in the long term.

Loss of muscle mass during a diet

In addition to the desired loss of fat mass, a diet can also lead to a loss of muscle mass. A one-sided diet, for example an unhealthy crash diet, can lead to a much greater loss of muscle mass. For this reason, it is particularly important in the context of a diet or long-term nutrional change to pay attention to a meta-type adjusted diet, which is nutritionally meaningful and balanced. In addition, the loss of muscle mass can be counteracted by appropriate exercise.



Compared to the average population, you have no increased tendency to lose muscle mass during a diet.

That's why we recommend that you not only take your meta-type diet into account, but also include sports activities so that you can counteract the general loss of muscle mass. The sports variant determined for you in the MetaCheck analysis will help you with this.





Feeling of hunger

The human body develops a feeling of hunger to ensure an adequate supply of energy and all necessary nutrients. The feeling of hunger varies from person to person, and can also be perceived as subjective physical sensation. In addition to subjective perception, the genetic component also plays a role.

Compared to the average population, you have no stronger feeling of hunger.

However, if you feel hungry, we recommend that you take care of sufficient hydration between meals.

Feeling of satiety

In contrast to the feeling of hunger, the body signals that sufficient food has been ingested with a feeling of satiety, and the meal can be ended accordingly. Through the interaction of hunger and saturation, the body regulates food intake and thus ensures an adequate supply of energy and nutrients. Like the feeling of hunger, the feeling of satiety is also determined by genetic components. Depending on the genetic predisposition, the feeling of satiety can also occur much more slowly, which in turn leads to increased food intake.



You have no weaker feeling of satiety compared to the average population.

However, we recommend that you eat your Meta-Type meals slowly, as slow eating usually enhances the satiety.

Visceral adipose tissue

In humans, and all vertebrates in general, the fat that is stored in the free abdominal cavity and envelops the internal organs is called visceral adipose tissue. Primarily, it provides mechanical protection for the internal organs and serves as an energy reserve in the event of a lack of food. Unlike subcutaneous fatty tissue, visceral fat is not visible in normal amounts. However, in larger quantities it is noticeable by a clear increase in the abdominal volume. Since visceral adipose tissue is more active in metabolic physiology than fatty tissue in other regions of the body, it is disadvantaged against other fatty tissue.

Compared to the average population, you have no higher tendency to visceral adipose tissue.

However, in the context of weight loss, we recommend that you follow a meta-type diet and moderate physical activity that is appropriate for your sport type, so that your metabolism remains active and that you reduce fat in the long term.







Micronutrients - vitamins, antioxidants and omega 3 fatty acids

Vitamins belong to the group of micronutrients. They strengthen the immune system, ensure growth and development (e.g. blood formation, cells, bones and teeth), and are involved in almost all metabolic processes. Basically, they are divided into fat-soluble and water-soluble vitamins. Fat-soluble vitamins can be stored in the body. These include vitamins A, D, E and K. All other vitamins are water-soluble. The body cannot store these. The excess amounts are excreted in the urine.

With a few exceptions, such as vitamin D, vitamins are considered essential because the body cannot produce them itself. They must therefore be ingested with food. With a healthy and varied diet, the body is usually also well supplied with vitamins. Nevertheless, special life situations and eating habits can lead to an increased vitamin requirement. Examples include pregnancy and breastfeeding period, increased nicotine and alcohol consumption, increasing age, stressful daily life, regular sports activities and genetic dispositions that are associated with lower vitamin levels. Therefore, it is always important to pay attention to the micronutrient supply for the optimization of the diet plan. Below we show you the results of the genetic test and what you should pay special attention to in your diet.

Vitamin A

Vitamin A, also called retinol, is a fat-soluble vitamin and is mainly found in animal products such as liver, milk, eggs and fish oil. It is particularly important for the protection and function of the skin, eyes and mucous membranes. While retinol is the active form of vitamin A, provitamin A beta-carotene is a precursor of vitamin A that can be converted to the active form in the body. Provitamin A carotenoids are found mainly in plant foods such as carrots, sweet potatoes, spinach, kale, peppers, pumpkin and apricots. The recommended daily intake of vitamin A is 900 micrograms for men and 700 micrograms for women.



You have a genetic variant associated with normal vitamin A levels. Therefore, for vitamin A, we recommend that you follow the common recommendations for vitamin and micronutrient intake. Foods rich in vitamin A such as the above examples are particularly suitable for this purpose.



Vitamin B9 (folate)



Vitamin B9, also called folate, is a water-soluble vitamin from the vitamin B complex that is important for healthy cell division and growth as well as for the immune system. It is involved in a variety of metabolic processes and is especially important during pregnancy to support the development of the fetal brain and spinal cord. The industrially produced form of the vitamin is called folic acid. Good sources of vitamin B9 include green leafy vegetables such as spinach and kale, legumes such as lentils and beans, and avocados, asparagus, broccoli, beets, citrus fruits and wheat germ. The recommended daily allowance for vitamin B9 for adults is 400-600 micrograms per day. For pregnant women and during breastfeeding period, the daily requirement increases significantly and should always be discussed with the attending physician.

You have a genetic variant which, according to current studies, is associated with lower vitamin B9 levels. This does not mean that you also currently have a too low vitamin B9 level. In any case, we recommend that you optimize your intake of vitamin B9 as a preventive measure by paying attention to your diet and eating foods that are rich in vitamin B9. The above-mentioned examples and corresponding dietary supplements are particularly suitable for this purpose.

Vitamin B12

Vitamin B12 is a water-soluble vitamin from the vitamin B complex. It is important for the function of the nervous system and is involved in the formation of DNA as well as red blood cells. Natural sources of vitamin B12 are of animal origin, such as meat, fish, eggs and dairy products. It is not found in plant foods, or only in very small amounts that are insufficient for a reliable supply. Vegans in particular should therefore cover their requirements with suitable dietary supplements. Alternatively, there are also cereal products enriched with vitamin B12 and soy milk. The recommended daily allowance for vitamin B12 for adults is 2.4 micrograms per day.



You have a genetic variant associated with normal vitamin B12 levels. Therefore, for vitamin B12, we recommend that you follow the common recommendations for vitamin and micronutrient intake. Foods rich in vitamin B12 such as the above examples are particularly suitable for this purpose.







Vitamin D



Vitamin D is a fat-soluble vitamin that plays an important role in bone health by promoting the absorption of calcium and phosphate in the body. In addition, it is involved in many metabolic processes and is therefore also important for the immune system, nervous system and muscle health. Vitamin D can be obtained from food and can also be produced in the body with the help of sunlight. Foods that contain vitamin D are mainly fatty fish such as salmon, mackerel and herring, as well as eggs, milk and dairy products such as cheese and yogurt. However, the amounts absorbed with food are rather small, so sunlight is the most important source of vitamin D. The recommended daily dose is 20 micrograms and applies only in the absence of self-production.

You have a genetic variant which, according to current studies, is associated with lower vitamin D levels. This does not mean that you also currently have a too low vitamin D level. In any case, we recommend that you optimize your intake of vitamin D as a preventive measure by paying attention to your diet and eating foods that are rich in vitamin D. Since sunlight is the most important source of vitamin D, we recommend that you take special care to spend 5-25 minutes a day outdoors, depending on your skin type.

Antioxidants

During physical activities in general and especially during intense stress, such as regular sports, more free radicals are produced in the body. More precisely, oxygen radicals are produced in the mitochondria as a by-product of energy production (cell respiration). They are highly reactive and can damage a wide variety of biological structures. Normally, the body can counteract the free radicals with naturally occurring antioxidants and antioxidant enzymes. However, if the free radicals predominate because the load is too high or the antioxidant enzymes do not work properly, this leads to damage to the cell and is referred to as oxidative stress. The body's own repair and detoxification functions of the cells can be supported by the supply of suitable antioxidants. These include vitamins C, E, β -carotene, zinc and selenium, as well as secondary plant compounds such as anthocyanins, flavonoids, and catechins. Foods rich in antioxidants include berries, green leafy vegetables, tomatoes, carrots, nuts and seeds.



You have a genetic variant which, according to current studies, is associated with reduced activity of antioxidant enzymes. This does not suggest that you also currently have an increased need for antioxidants. In any case, we recommend that you preventively optimize your intake of antioxidants by paying attention to your diet and eating foods rich in antioxidants. Also with regard to an effective regeneration and recovery after sports activities or strong everyday stress, we recommend you to pay special attention to a sufficient antioxidant intake.



Omega 3

The polyunsaturated omega-3 fatty acids are essential for us humans and must be ingested regularly, as our body cannot produce them itself. However, there is not one omega-3 fatty acid, but different types. $\alpha\text{-Linoleic}$ acid, for example, is found primarily in linseed, rapeseed, soybean and walnut oil. Eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) are two other important omega-3 fatty acids, which are mainly found in marine fish oils. In the body, $\alpha\text{-linoleic}$ acid is metabolized to EPA and DHA. In addition to numerous health benefits, such as the regulation of blood pressure and blood clotting, the additional intake of EPA and DHA helps to reduce inflammatory processes and thus ensures faster regeneration. It is therefore very important, especially for athletes, to ensure a sufficient supply of omega-3 fatty acids. In addition to fish oil capsules, regular consumption of fish or algae is particularly suitable for this purpose.



With respect to your genetic predisposition, we recommend that you preventively optimize your intake of omega-3 fatty acids by paying attention to your diet and eating foods rich in omega-3 fatty acids. Also, with regard to effective regeneration and recovery after sports activities, we recommend that you pay special attention to an adequate intake of omega-3 fatty acids.

Caffeine metabolism



Caffeine is one of the most common stimulants and is contained in a wide variety of beverages. While coffee and black tea, for example, have a natural caffeine content, there are more and more soft drinks or energy drinks to which caffeine is added. In everyday life, caffeine is primarily consumed to temporarily dispel fatigue and increase the ability to concentrate. In addition, it also has a performance-enhancing effect for people during sports. The effect of caffeine is not only broad, but also dependent on one's own genetic predisposition and can therefore vary greatly from person to person. For example, some people can break down caffeine quickly, whereas others metabolize caffeine rather slowly, which can lead to increased inner restlessness, irritability and insomnia. Therefore, caffeine for performance enhancement in sports should always be taken with caution.

You metabolize caffeine slowly compared to the average. We therefore recommend that you do not take caffeine to enhance performance before training, as the stimulating effect of caffeine can last significantly longer than desired.





Ο β γ δ 🖟 🎉

Sweet tooth

People with a weakness for sweet foods are often describes as having a "sweet tooth". Sweet foods can include both healthy foods such as fruit and unhealthy foods such as candy and sweet drinks. A, compared to the average, stronger desire for sweet foods can have different reasons. One of these reasons may be a genetic disposition, in which individuals may develop an increased likelihood of eating more sweets and sugary foods. Particularly in the context of a diet and healthy dietary change, it is therefore especially valuable to find out whether there may be a disposition for an increased craving for sweet foods.



You do not have an increased tendency to eat more sweets and sugary foods compared to the average population. As part of a healthy dietary change, we recommend that you pay particular attention to sugary foods, choosing fruit, for example, as a healthy sweet alternative to sweets and sweetened beverages.

Alcohol



For many, drinking alcoholic beverages is a relaxing or social activity, but for some it can also be unpleasant because of their body's reaction to alcohol. The metabolization, or breakdown, of alcohol in the body is largely carried out by the liver. If the metabolization of alcohol is impaired, it is called alcohol intolerance. This can manifest itself in symptoms such as muscle weakness, palpitations or facial flushing. This intolerance can have various causes, including a genetic predisposition. What is also underestimated in addition to tolerance is the fact that alcohol also contains many calories. For example, a glass of red wine contains about 170 kcal and a pint of beer about 430 kcal. This should always be considered in the context of a diet or a healthy change of diet.

Your genetic analysis has shown that there is no genetic predisposition in favor of alcohol intolerance. However, if you observe any problems after consuming alcoholic beverages, please consult your physician.



Lactose



Lactose, which is for example ingested with milk and dairy products, must be broken down in the intestine with the help of the digestive enzyme lactase. In the case of lactose intolerance, not enough lactase is available to the body due to missing or reduced production, which means that the lactose cannot be digested or can only be digested incompletely. This enzyme deficiency can then lead to symptoms such as diarrhea, bloating, abdominal pain or nausea. The majority of the world's population cannot fully digest lactose after infancy. In Asia and Africa, lactose intolerance affects the majority of the adult population (90% or more), while in Central Europe it affects approximately one in 5 to 10 people. However, the degree of intolerance and the time of onset after birth can vary greatly. Lactose intolerance is not a disease, but it can limit the quality of life and should therefore always be included as part of a healthy dietary change.

Your genetic analysis has shown that there is a genetic predisposition in favor of lactose intolerance. This does not allow the conclusion that a lactose intolerance actually exists or will occur. Nevertheless, we recommend that you change to a low-lactose diet as a precaution. Should you nevertheless consume foods containing lactose and subsequently observe problems, please consult your doctor.

Gluten

Gluten is a protein found in many types of cereals. These include, for example, wheat, rye, oats and barley. In recent years, intolerance to this protein has become increasingly common, and is called celiac disease. Thus, approximately every 600-4000th person in Germany is affected by a gluten intolerance, in children, however, this is estimated to be every 100-400th person. With the gluten intolerance it comes to an overreaction of the immune system and in the consequence to a chronic inflammation of the small intestine. Abdominal pain, diarrhea, vomiting, loss of appetite and lack of weight gain are common symptoms in children, which may appear at the earliest about 3-4 months after the first feeding with gluten-containing foods (e.g. porridge mixtures). Depending on the diet, symptoms are usually first noticed between 6 months and 2 years of age.



The mechanisms by which celiac disease develops are not yet fully understood. However, it is certain that there is a genetic predisposition that contributes in part to the development. >99% of all celiac patients have a specific genetic constellation in the HLA-DQ gene. However, this gene constellation also occurs in >25% healthy individuals, so the presence of this gene constellation does not necessarily predict the onset of celiac disease. Nevertheless, the knowledge of the presence of the genetic prerequisite is useful to optimize one's own diet plan.

Your genetic analysis has shown that there is no genetic disposition in favor of gluten intolerance. You can continue to include gluten-containing foods in your diet. However, if you observe any problems after consuming gluten-containing foods, please consult your doctor.







Let's start! - 4 Week Plan

On the following pages you will find your nutrition plans for the next 4 weeks. Please read the following instructions carefully before starting.

- Each of the four following plans is your personal nutrition plan for an entire week. After consulting with your MetaCheck consultant, stick exactly to these guidelines and discuss any special features (e.g. diabetes, pregnancy or uncertainties) with them.
- For successful, rapid weight loss, it is necessary that you eat only the three meals listed in the diet plans every day and completely avoid snacks in between.
- In your plans, you will find general food names such as "vegetables," "fruits," or "meat/fish/seafood." To achieve the most varied diet possible, you can vary your choices daily. To see which foods you can choose, see the "Food choices for your weekly nutrition plans" listing.
- Alternatively, you can replace up to two meals a day with one serving of MetaShake each.
- Please note that the gram specifications refer to the respective "full" unit and should be adjusted accordingly depending on the quantity specification. Example: 1 cup of low-fat quark equals 250 g and 0.5 cup of low-fat quark equals 125 g.
- You may season the meals as you like with pepper, herbs, garlic, ginger, vinegar or similar. Vegetable broth may also be used to cook the ingredients. Salt should only be used in small quantities.
- The listed foods can also be interchanged as long as the macronutrient energy has a similar composition. Please ask your MetaCheck consultant if you need help.

Important!

Your result shows that you have a genetic predisposition in favor of lactose intolerance. As a precaution, we recommend that you either replace dairy products with vegan alternatives such as soy yogurt, etc., or use a dairy product that is commercially available and labeled "lactose-free". Semi-hard cheeses such as Appenzeller, old Gouda, Emmental, and Edam are considered "lactose-free" because during the long ripening process, the lactose contained in the milk is gradually converted almost completely into lactic acid.

Your result shows that you do not have a genetic disposition in favor of gluten intolerance. When eating bread and pasta, you should choose whole grain varieties if possible. With whole grain products, the whole grain is processed. They therefore contain more fiber, vitamins and minerals than white flour products. If you still experience discomfort after eating foods containing gluten, please consult a doctor.



Food selection for your weekly nutrition plans

We recommend that you include as many different of the foods listed below as possible in your meals over the next 4 weeks to ensure a varied diet.

Vegetables: artichoke, aubergine, cauliflower, broccoli, chicory, chicory, chinese cabbage, iceberg lettuce, endive, fennel, green cabbage, cucumber, ginger, kohlrabi, lettuce, pumpkin, mangold, carrots, paprika fruits, parsnip, leek, radish, rhubarb, Brussels sprouts, beetroot, red cabbage, red cabbage, rocket, sauerkraut, chives, celery, celery, soya sprouts, asparagus, spinach, tomatoes, Jerusalem artichoke, cabbage, savoy cabbage, zucchini, onion

Legumes: white beans, peas, chickpeas, lentils, kidney beans, soybeans

Vegetable protein: (Smoked) tofu, seitan, dried products made from pea or soy protein, lupino made from lupine flour, tempeh

Fruit: pineapple, apple, orange, apricot, banana, pear, blackberry, strawberry, pomegranate, grapefruit, rosehip, blueberry, raspberry, elderberry, honeydew melon, redcurrants (red and black), kaki, prickly pear, cherries (sour and sweet), kiwi, lime, litchi, tangerines, mango, melon, mirabelle plums, nectarines, oranges, papaya, passion fruit, peach, plums, cranberries, quince, sea buckthorn berries, gooseberries, watermelon, grapes, lemon

Raw vegetables: chicory, Chinese cabbage, iceberg lettuce, endive, lamb's lettuce, fennel, pickled cucumber, cucumber, kohlrabi, lettuce, carrots, pepper, radicchio, radish, rhubarb, red cabbage, rocket, celery, bean sprouts, asparagus, spinach, tomatoes, cabbage, onion

Examples for implementation in daily life

Meal: Lunch, Ingredients: Whole grain pasta, vegetables, legumes, seeds, nuts



Whole grain penne ratatouille with beans, as topping seeds, nuts

- · Whole grain pasta
- Tomato
- Bell pepper
- Zucchini
- Eggplant
- Peas
- Seasonings: Vegetable broth, pepper, italian herbs e.g. basil
- Walnuts



Spinach lentil lasagna (whole grain), as a snack seeds, nuts

- · Whole grain lasagna plates
- Plate lentils
- · Chopped frozen spinach or fresh spinach
- Onion, garlic
- Seasonings: Pepper and vegetable broth
- Sunflower seeds



Whole grain spaghetti with lentil nut Bolognese

- Whole grain spaghetti
- Boiled tomatoes
- Red lentils
- Sunflower seeds
- Carrot
- Onion
- Parsley
- Seasonings: Pepper, vegetable broth, Italian herbs







Nutritional plan

Your starting weight: Your body fat content: Your muscle percentage:

Your meta-type optimized nutrition plan for week 1:

meal	amount	unit	ingredient
Breakfast	6	tablespoon	oats
or MetaShake	1	piece or handful (130 g)	fruit
	1	small cup (150 g)	plain yogurt (3.5 % fat)
Lunch	60	gram	whole grain pasta (uncooked)
or MetaShake	4	handful (60 g)	vegetables
	50	gram	legumes
	30	gram	seeds
Dinner	2	slice (50 g)	Whole grain bread
or MetaShake	2	handful (60 g)	raw vegetables
	2	teaspoon	vegetable oil
	1	tablespoon	vinegar or lemon juice

Your weight Your body fat content Your muscle percentage after week 1: after week 1:

Your meta-type optimized nutrition plan for week 2:

meal	amount	unit	ingredient
Breakfast	1	slice (50 g)	Whole grain bread
or MetaShake	10	gram	Vegetable spread
	50	gram	seeds
	3	tablespoon	oats
	1	piece or handful (130 g)	fruit
	1	small cup (150 g)	plain yogurt (3.5 % fat)
Lunch	0.5	small cup (125 g)	whole grain rice (uncooked)
or MetaShake	4	handful (60 g)	vegetables
	50	gram	Vegetable protein
Dinner	1	slice (50 g)	Whole grain bread
or MetaShake	25	gram	low-fat cottage cheese (< 10% FDM)
	2	handful (60 g)	raw vegetables

Your weight Your body fat content Your muscle percentage after week 2: after week 2:



Your meta-type optimized nutrition plan for week 3:

meal	amount	unit	ingredient
Breakfast	50	gram	fruit muesli without added sugar
or MetaShake	0.5	piece or handful (130 g)	fruit
	1	glass	milk (3.5% fat)
Lunch	240	gram	potato
or MetaShake	4	handful (60 g)	vegetables
	1	Piece size S	chicken egg
Dinner	2	slice (50 g)	Whole grain bread
or MetaShake	1	slice (30 g)	cheese (< 10 % FDM)
	1	small cup (150 g)	plain yogurt (3.5 % fat)
	1	piece or handful (130 g)	fruit
	25	gram	seeds

Your weight Your body fat content Your muscle percentage after week 3: after week 3:

Your meta-type optimized nutrition plan for week 4:

meal	amount	unit	ingredient
Breakfast	1	slice (50 g)	Whole grain bread
or MetaShake	20	gram	Vegetable spread
	1	piece or handful (130 g)	fruit
	1	small cup (150 g)	plain yogurt (3.5 % fat)
Lunch	60	gram	quinoa
or MetaShake	4	handful (60 g)	vegetables
	100	gram	Sprouts
Dinner	2	slice (50 g)	Whole grain bread
or MetaShake	50	gram	low-fat cream cheese (10 % fat)
	2	handful (60 g)	raw vegetables
	40	gram	seeds

Your weight Your body fat content Your muscle percentage after week 4: after week 4:







Meta-Type specific food-list

Based on your meta type Delta you will find in the following tables different foods, which are color-coded according to their potential for weight loss.





Cereal(-products) and pseudocereals	
Baked goods	
Baguette	
Black bread (whole grain)/"Pumpernickel"	
Bread, whole grain (all types of cereals)	
Crispbread	
Crispbread, whole grain	
Croissant	
Flatbread	
Flatbread, whole grain	
Multi-grain bread	
Prezel	
Roll, wheat	
Roll, whole grain	
Breadcrumbs	
Breadcrumbs, whole grain	
Rusk, without egg	
Rusk, without egg, whole grain	
Rye bread, sourdough	
Toast, wheat	
Toast, whole grain	
White bread	
Breakfast cereals	
Flakes	
Buckwheat flakes	
Millet flakes	
Oat flakes	
Oat flakes, instant	
Quinoa flakes	
Rye flakes	
Whole grain flakes (e. g. "6-Korn-Flocken")	
Whole wheat flakes	
Other	
Amaranth, puffed, unsweetend	
Breakfast bisciuts, with added sugar	
Breakfast cereals, with added sugar	
Chia seed pudding, with milk (1.5 % fat)	
Cornflakes, no added sugar	
Crunchy granola, with added sugar	
Muesli bar/granola bar, with added sugar	
Muesli with dark chocolate	
Muesli with dried fruits, no added sugar	
Muesli with nuts, no added sugar	
Overnight oats, with milk (1.5 % fat)	
Porridge, dry product, no added sugar	
Quinoa, puffed, no added sugar	
Smoothie bowl, with fresh fruit and cottage cheese	
Doughs and mixes	
Flammkuchen dough, ready to bake	
Pancake mix (dry product)	
Pizza dough, ready to bake	
Puff Pastry, ready to bake	
Grains, flours, grinding products (containing gluten)	
Barley, seed	
Pearl barley	
Oats, seed	
· · · · · · · · · · · · · · · · · · ·	

Oat bran	
Rye, seed	
Spelt, seed	
Spelt bran	
Green spelt (unripe spelt grain)	
Wheat, seed	
Bulgur	
Couscous	
Wheat semolina	
Wheat germs	
Wheat bran	
Tender wheat ("Ebly")	
Flours (all sorts containing gluten)	
Pastry flour (US)/soft flour (UK)/Type 405 (D)	
All-purpose flour (US)/plain flour (UK)/Type 550 (D)	
First clear flour (US)/ hard flour (UK)/Type 1050 (D)	
Flour, whole wheat/wholemeal	
Ancient grains	
Einkorn, seed	
Emmer, seed	
Kamut, seed	
Triticale, seed	
Flour, wholemeal (from ancient grains)	
(Pseudo)Cereals, flours, grinding products (gluten free)	
Amaranth, seed	
Buckweed, seed	
Corn, seed	
Cornmeal/Polenta (maize semolina)	
Corn, Popcorn (pure)	
Corn, Popcorn, with sugar (cinema popcorn)	
Flour, wholemeal (gluten free grains)	
Millet, seed	
Quinoa, seed	
Rice, Basmati	
Rice, whole grain (Parboiled)	
Rice, wild rice	
Thickeners and starch	
Agar	
Arrowroot, powder	
Corn starch	
Gelatine, clear, unflavoured	
Guar gum, powder	
Inulin	
Locust bean gum, powder	
Pectin	
Potato starch	
Rice starch	
Rice statch	
Sago (Pearl tapioca)	
Sago (Pearl tapioca)	



Pasta products	Vegan cheese, made from coconut oil and starch
Glass noodles/Chinese noodles, uncooked	Vegan cheese, made from nuts
Instant noodles (dry product)	Dairy products
Kritharaki (Greece pasta), uncooked	Buttermilk, max 1 % fat
Legume-pasta (from lentils etc.), uncooked Pasta, egg free, uncooked	Buttermilk, with fruit Condensed milk, 7.5 % fat
Pasta, egg free, wholemeal, uncooked	Crème fraîche, 30 % fat
Pasta, egg pasta, uncooked	Crème double, 42 % fat
Rice noodles, uncooked	Crème légère, 15 % fat
Shirataki noodles, uncooked	Cream, soured, 10 % fat
Milk and dairy products, cheese and eggs	Cream, soured, 20 % fat
Cheese	Fruit yoghurt 0.1 % fat Fruit yoghurt, 3.5 % fat
Cream cheese	Hot Chocolate with skim milk
Cream cheese preparations	Kefir, low fat, 1.5 % fat
3 % fat absolute, low fat	Schmand, 24 % fat
17 % fat absolute, medium fat	Sour Cream, 11 % fat
25 % fat absolute, full fat	Sour milk, 3.5 % fat
Cottage cheese, 3.9 % fat absolute	Whey, 0.1 % fat Whipping cream, 30 % fat
Fruit quark, 0.2 % fat absolute Fruit quark, 3.5 % fat absolute	Cooking cream, 15 % fat
Mascarpone, 80 % FDM	Plant-based alternative to cream, 7 % fat
Mozzarella, buffalo milk	Heavy (whipping) cream, 35 % fat
Mozzarella, cow's milk	Spray cream, 30 % fat
Mozzarella, cow's milk, low fat	Yoghurt, natural (plain), non fat, max. 0.1 % fat
Quark, low fat, < 10 % FDM (0.2 % fat absolute)	Yoghurt, natural (plain), low fat, 1.5 % fat Yoghurt, natural (plain), whole milk, 3.5 % fat
20 % FDM, semifat	Yoghurt, natural (plain), greek style, 10 % fat
40 % FDM, full fat Ricotta, 45 % FDM	Plant-based alternatives to dairy products, vegan
Schichtkäse, 10 % FDM	Plant-based cooking creams
Soft cheese	Coconutmilk, canned
Brie, 50 % FMD	Creme Vega (soy)
Camembert, 45 % FMD	Cuisine Almond
Camembert, 30 % FMD	Cuisine Coconut
Feta (sheep's milk), 45 % FMD	Cuisine Rice
Feta (sheep's milk), light, 9 % fat absolute Gorgonzola, 50 % FMD	Soya alternative to single cream
Brined cheese/"Feta" (cow's milk), 45 % FMD	Soya alternative to single cream, light
Brined cheese (cow's milk), 12 % absolute	Plant-based yoghurt
Limburger, 40 % FMD	Coconut yoghurt, sweetened
Processed cheese, 45 % FMD	Lupine yoghurt, sweetened Soy yoghurt, plain, sweetened
Processed cheese, slices	Soy yoghurt, plain, unsweetened
Romadur, 30 % FMD Roquefort, 52 % FMD	Soy yoghurt, Vanilla
Saint Albray, 62 % FMD	Soy-almond-yoghurt, unsweetened
Sliced cheese	Soy-coconut-yoghurt, unsweetened
Buttercheese, 60 % FMD	Plant-based quark
Buttercheese, 30 % FMD	Quark, from soybeans, sweetened
Gouda, 48 % FMD (29 % fat absolute)	Quark, from soybeans, unsweetened
Gouda, 30 % FMD (18 % fat absolute)	Silken tofu
Edamer, 45 % FMD	Plant-based spreads
Edamer, 30 % FMD Tilsiter, 45 % FMD	Alternative to cream cheese (soy), herbs Alternative to cream cheese (soy), tomato
Tilsiter, 30 % FMD	Lard, plant-based, with apples and onion
Leerdammer, 45 % FMD	Spread, curry and lentil
Hard cheese	Spread, tomatoe and basil
Appenzeller, 50 % FMD	Eggs
Cheddar (Chester), 50 % FMD	1 hen's egg (whole), size M
Emmentaler, 45 % FMD	1 egg white, size M
Greyerzer/Gruyère, 45 % FMD	1 egg yolk, size M
Manchego, 50 % FMD	Egg replacer, vegan
Mountain cheese, 45 % FMD Parmesan, 37 % FMD	Aquafaba (Chickpea Brine)
Pecorino, 40 % FMD	Egg replacer with corn starch, dry product)
Provolone, 45 % FMD	Kala Namak (salt with natural egg flavour)
Sour milk cheese	Soy flour, full-fat Soy flour, defatted
Bauernhandkäse	ooy nour, dorattou
Harzar abacca ("Mainzarkäsa")	



Harzer cheese ("Mainzerkäse")
Plant-based cheese, vegan





Milk	Dips & Sauces (Convenience products)
Milk (cow's milk), 3.5 % fat	Aioli
Milk (cow's milk), 1.5 % fat	Ajvar (Paprika paste)
Milk (cow's milk), skimmed, 0.1 % fat	Barbecue sauce
Goat milk	Béchamel sauce
Sheep's milk	Bernaise sauce
Plant-based drinks ("vegan milk")	Bouillon, powder, without flavour enhancers
Almond drink, unsweetened	Burger sauce
Caswhewmilk, unsweetend	Chutney
Coconut drink, unsweetened	Cocktail sauce
Hazelnut drink, unsweetened	Cream sauce
Hemp seed drink, unsweetend	Frankfurt green sauce
Lupine milk, unsweetened	Garlic sauce
Macadamia milk, unsweetened	Gravy, dry product
Oat milk, unsweetend	Guacamole Hollandaise sauce
Rice & Quinoa drink, unsweetened	Hot dog sauce
Rice milk, unsweetened	Hummus
Soy milk, unsweetened	Ketchup
Soy milk, banana, sweetened	Mushroom sauce ("Jägersauce")
Soy milk, light, sweetened	Olive tapenade
Soy milk, chocolate, sweetened	Paprika sauce ("Zigeunersauce")
Soy milk, vanilla, sweetened	Peanut sauce
Spelt drink, unsweetend	Pesto
Spreadable fats & Oils	Salad dressing "Sylt style", convenience product
Oils suited for the cold kitchen	Salad dressing, dry product
Avocado oil, cold pressed	Salad dressing, oil & vinegar, convenience product
Chia seed oil. cold pressed	Salad dressing, oil & vinegar, home-made
Hemp seed oil, cold pressed	Salsa sauce
Pumpkin seed oil, cold pressed	Sweet & sour sauce
Linseed oil, cold pressed	Teriyaki sauce
Rapeseed oil, cold pressed	Thousand island dressing, convenience product
Sesame seed oil, dark, roasted, cold pressed	Tomato sauce (arrabiata)
Grape seed oil, cold pressed	Tomato sauce (bolognese)
Walnut oil, cold pressed	Tomato sauce, convenience product, jarred
Wheat germ oil, cold pressed	Tsatziki Voshut desseine seguenianes product
Oils suited for the warm kitchen	Yoghurt dressing, convenience product
(e.g. for frying vegetables)	Seasonings
Albaöl (Rapeseed oil with butter flavor)	Curry paste, green
Safflower oil, refined	Curry paste, red
Peanut oil, refined	Fish sauce
Corn oil, refined	Horseradish sauce
Olive oil, native	Liquid seasonings (e. g. Maggi) Miso (japanese spice paste)
Plant-based fat for frying (e. g. Rama Culinesse)	Mustard, medium hot
Rapeseed oil, refined	Mustard, median not Mustard, sweet
Sesame seed oil, not roasted, unrefined	Oyster Sauce
Oils & fats suited for the warm kitchen	Oyster Sauce, vegetarian
	Sambal Oelek
(for very high temperatures, e. g. searing; deep frying)	Sesame paste (tahini)
Goose fat	Soy sauce
Ghee (clarified butter)	Tabasco
Coconut oil, cold pressed	Tomato puree
Beef fat (grazer)	Vinegar
Red palm oil , unrefined and cold pressed	Balsamic vinegar (balsamic reduction)
Lard Supflower oil refined	Wasabi
Sunflower oil, refined	Worcester sauce
Spreadable fats	Yeast flakes
Aioli	
Alsan (plant-based "butter"), vegan	
Butter (sweet or cultured)	
Salad dressing (mayonnaise and yoghurt), 25 % fat	
Mayonnaise, 80 % fat	
Mayonnaise, légère 4.8 % fat	
Vegetable margarine light	
Vegetable margarine, light Remoulade, 60 % fat	
Mayonnaise, 50 % fat	
Onion lard	

Spices, Dips, Sauces & Seasonings

Onion lard



Spices	
Caraway	
Cardamom	
Chillia paste (harissa)	
Chillies Cinnamon	
Coriander	
Cumin	
Curry powder	
Ginger	
Herbs, dried (e. g. oregano, basil, etc.)	
Nutmeg	
Paprika powder	
Pepper	
Spice mixes, with additives (sugar, fat, etc.)	
Spices, pure, without additives	
Turmeric	
Vegetables and vegetable products	
Artichokes, raw	
Artichokes, jarred, preserved in oil	
Asparagus, raw	
Asparagus, jarred	
Aubergine/eggplant, raw	
Bamboo shoots, jarred	
Beetroot, raw	
Beetroot, chips, diep fried Beetroot, jarred	
Beetroot, vacuum-treated and sealed	
Broccoli, raw	
Brussel sprouts, raw	
Carrots, raw	
Carrots, canned	
Cauliflower, raw	
Celeriac, raw	
Celeriac, jarred	
Celery, raw	
Chestnuts, raw	
Chinese cabbage, raw	
Fermented Chinese cabbage (Kimchi), jarred	
Cucumber, raw	
Sandwich gherkins, jarred	
Dill pickles, jarred Fennel, raw	
Frozen vegetables, without additives	
Garlic, raw	
Ginger, raw	
Ginger, jarred	
Horseradish, Root, raw	
Jerusalem artichoke, raw	
Kale (green cabbage), raw	
Kale, jarred	
Kohlrabi, raw	
Leek, raw	
Lettuce, raw	
Chicory, raw	
Endive, raw	
Head lettuce, raw	
lceberg lettuce, raw Lamb's lettuce, raw	
Radicchio, raw	
Rocket, raw	
Mung bean sprouts, raw	
Mung bean sprouts, jarred	
Mushrooms, raw	
Oyster mushroom, raw	
Butter fungus, raw	
Butter fungus, jarred	
White mushrooms, raw	
White mushrooms, jarred	
Morel, raw	
Morel, dried	

Chanterelles, raw	
Chanterelles, jarred	
Porcini, raw	
Porcini, dried Truffles, raw	
Onion, raw	
Parsley root, raw	
Parsnip, raw	
Parsnip, chips, deep fried	
Peas, green, raw	
Pepper fruit , raw	
Pepper fruit, jarred, preserved in oil	
Pointed cabbage, raw	
Potatoes, raw, with peel	
Potato chips	
Potato, jarred	
French fries, ready-to-eat, salted	
Potato flakes (puree, dry product)	
Pumpkin, raw	
Radish, raw	
Red cabbage, raw	
Red cabbage, jarred	
Red radish, raw	
Rhubarb, raw	
Romanesco, raw	
Salsify, raw	
Savoy, raw	
Soy bean sprouts, raw	
Soy bean sprouts, jarred	
Spinach, raw	
Baby spinach, raw	
Creamed spinach, deep frozen	
Spring onion, raw	
String beans, raw	
String beans, canned	
Sugar snaps, raw	
Sweetcorn (cob), raw	
Popcorn, with sugar ("cinema popcorn")	
Corn, puffed, (corn crackers)	
Sweetcorn, canned	
Sweet potato (Batate), raw	
Sweet potato, chips, deep fried	
Swiss chard, raw	
Tomatoes, raw	
Tomatoes, paste, canned	
Tomatoes, dried	
Tomatoes, preserved in oil	
Tomato ketchup, with added sugar	
Tomato puree, salted	
Turnips, raw	
White cabbage, raw	
Sauerkraut, jarred	
Zucchini, raw Zucchini, chips, deep fried	
Fresh herbs	
Basil, fresh	
Chive, fresh	
Coriander, fresh	
Dill, fresh	
Garden cress, fresh	
Mint, fresh	
Parsley, fresh	

Watercress, fresh







Plum, dried (NAS, non-sulphurized)

Fruits and fruit products	
NAS = no added sugar/ AS = with added sugar	
Apple, unpeeled, raw	
Apple, dried (NAS, non-sulphurized)	
Apple, dried (sulphurized)	
Applesauce, jarred (NAS) Apricot, raw	
Apricot, raw Apricot, canned, sugared	
Apricot, dried (NAS, non-sulphurized)	
Avocado, raw	
Guacamole, jarred	
Banana, raw	
Banana chips (AS and fat, sulphurized)	
Banana, dried (NAS, non-sulphurized)	
Blood orange, raw	
Blueberries, raw	
Blueberries, freeze-dried	
Cherries, sour, raw	
Morello cherries, jarred, sugared	
Cherries, sweet, raw	
Cranberries, dried, sugared	
Currents, raw, hlock	
Currants, raw, black Currants, raw, white	
Dates, dried (NAS, non-sulphurized)	
Elderberries, raw, black	
Fig, dried (NAS, non-sulphurized)	
Fig, raw	
Galia melon, raw	
Goji berries, dried (NAS, non-sulphurized)	
Gooseberries, raw	
Grapefruit, red, raw Grapefruit, white, raw	
Grapes, raw	
Black Corinths, dried (NAS, non-sulphurized)	
Raisins, dried (NAS, non-sulphurized)	
Sultanas, dried (NAS, non-sulphurized)	
Honeydew, raw	
Kiwi, raw	
Lemon, raw	
Lemon juice, freshly-squeezed Lime, raw	
Lingonberry, raw	
Litchi, raw	
Litchi, canned, sugared	
Mandarin, raw	
Mandarin, canned, sugared	
Mango, raw	
Mango, canned, sugared Mango, dried (NAS, non-sulphurized)	_
Mirabelles, raw	
Mirabelles, canned, sugared	
Mulberries, dried (NAS, non-sulphurized)	
Nectarines, raw	
Olives, black, marinated (Greek style)	
Olives, green, marinated	
Orange, raw	
Papaya, raw Passion fruit, raw	
Passion ruii, raw Peach, raw	
Peach, canned, sugared	
Peach, dried (NAS, non-sulphurized)	
Pear, raw	
Pear sauce, jarred (NAS)	
Pear, canned, sugared	
Persimmon, raw	
Physalis, raw	
Pineapple, raw Pineapple, canned, sugared	
Pineapple, dried NAS, non-sulphurized)	
Plum, raw	

Pomegranate, raw	
Pomelo, raw	
Quince, raw	
Raspberries, raw	
Raspberries, freeze-dried	
Sea buckthorn berries, raw	
Strawberries, raw	
Strawberries, freeze-dried	
Watermelon, raw	
Legumes, kernels, seeds and nuts	
Legumes	
Beans, white, dried	
Beans, white, canned	
Chickpeas, dried	
Chickpeas, canned	
Kidney beans, dried	
Kidney beans, canned	
Lentils, dried	
Lentils, canned	
Peas, dried	
Peas, canned	
Soy beans, dried	
Soy beans, canned	
Kernels & Seeds	
Chia seeds	
Hemp seeds, peeled	
Linseeds	
Pine nuts	
Pistachio kernels	
Poppy seeds	
Psyllium husks	
Pumpkin seeds	
Sesame seeds, white, unpeeled	
·	
Sesame seeds, black, unpeeled	
Gomasio	
Sunflower seeds	
Sunflower seeds	
Sunflower seeds Nuts	
Sunflower seeds Nuts Almonds	
Sunflower seeds Nuts	
Sunflower seeds Nuts Almonds	
Sunflower seeds Nuts Almonds Brazil nuts Cashews	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut Coconut, ripe	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut Coconut, ripe Hazelnuts Macadamia nuts	
Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut Coconut, ripe Hazelnuts Macadamia nuts Nut paste (100 % nut)	
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Sunflower seeds Nuts Almonds Brazil nuts Cashews Chestnuts Coconut milk Coconut paste, 100 % coconut Coconut, ripe Hazelnuts Macadamia nuts Nut paste (100 % nut)	
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Game (Quarry)	Turkey, with skin	
Hare	Turkey hen, breast, without skin	
Venison (deer, stag)	Turkey hen, leg, without skin	
Venison (roe deer)	Veal	
Wild boar	Veal, escalope (no breadcrumb coating)	
Lamb	Veal, fillet	
	Veal, meat chop	
Lamb, escalope	Veal, Wiener Schnitzel (breaded, fried)	
Lamb, fillet	Fish and fish products	
Lamb, leg Lamb, meat chop		
Lamb, meat chop Lamb, minced	Brathering, jarred Brown trout, fresh	
'	Carp, fresh	
Meat products & sausages	Caviar (sturgeon), jarred	
Bierschinken	Caviar (other fish), jarred	
Blood sausage	Cod, fresh	
Bologna sausage (Fleischwurst)	nwurst) Cod, fresh	
Bratwurst (pork)	Common sole, tresh Crab, fresh	
Ham, salted and cooked	Crab, fresh Crustacea (crayfish), fresh	
Ham, saltet and smoked	Crustacea (crayiisn), fresh European flounder, fresh	
Jagdwurst	Hake (Merlucciidae), fresh	
Liverwurst	Halibut, fresh	
Meat loaf (Leberkäse)	Lobster, fresh	
Mettwurst (Braunschweiger)	Northern pike, fresh	
Minced meat (pork and beef, maximum 30 % fat)	Oysters, fresh	
Mortadella	Perch, fresh	
Poultry sausage, lean	Plaice, fresh	
Salami	Pollock (saithe), fresh	
Saveloy	Pollock, preseved in oil, canned	
Vienna sausage	Pollock, smoked	
Meat substitutes	Rose fish (red perch), fresh	
Quorn	Scampi, fresh	
Seitan	Sea eel (Seeaal), smoked	
Soy cutlets	Shrimp, fresh	
Tempeh	(Skipjack) Tuna, fresh (Katsuwonus pelamis)	
Tofu	Tuna, in oil, canned	
Almond-nut-tofu	Tuna, in water, canned	
Silken tofu	Zander, fresh	
Smoked tofu	Cuttlefish	
Vegetarian liverwurst	Octopus (Pulpo), fresh	
Vegetarian salami	Sepia, fresh	
Vegetarian sausage	Squid, fresh	
Vegetarian schnitzel		
Other	Cold water fish, high in omega-3 fatty acids	
Goat	Anchovy, fresh	
Horse	Anchovy, in oil, canned	
Rabbit	Eel, freshwater eel, fresh	
Pork	Eel, smoked	
	Herring, fresh	
Bacon	Herring, fillet (Matjesfilet)	
Pork, belly Pork, cured, lean	Herring, fillet, in cream sauce	
	Herring, fillet, in tomato sauce, canned	
Pork, diced ham (lean) Pork, escalope (from the topside)	Herring, in jelly	
Pork, escalope (from the topside) Pork, fillet	Herring, marinated ("Bismarckhering")	
Pork, ground ("Mett")	Mackerel, fresh	
Pork, lean meat without fat	Mackerel, smoked	
Pork, lean meat without rat Pork, meat chop	Salmon, fresh	
Pork, minced (maximal 30 % fat)	Salmon, smoked	
Pork, neck	Sardine, fresh	
	Sardine, in oil, canned	
Poultry	Tuna (Thunnus), fresh	
Chicken, roast chicken, whole	Sweets, pastry and sweeteners	
Chicken breast, with skin	Desserts (Ready-to-eat product)	
Chicken breast, without skin	Jelly	
Chicken, boiler	Pudding, chocolate	
Chicken, heart	Pudding, vanilla	
Chicken, leg with skin	Rice pudding	
Chicken, liver	Rote Grütze (red fruit dessert)	
Duck, breast with skin	Semolina pudding	
Duck, leg Goose, breast with skin	Tiramisu	







Fruit ice (Italian ice)	
Ice cream (with cream)	
Ice cream (with milk)	
Sorbet	
Water ice	
alty snacks	
Bamba (German: "Erdnussflips")	
Breadstick (Grissini)	
Cheese breadsticks	
Nachos/Tortilla chips Potato chips, deep fried	
Salt sticks/Pretzel sticks	
weets	
Candy	
Chocolate, with nuts	
Chocolate, dark (= 90 % Cocoa)	
Chocolate, milk	
Chocolate, white	
Gummi candy	
Liquorice (confectionery)	
Marzipan	
Nougat	
weeteners	
Agave nectar	
Coconut sugar	
Concentrated apple/pear juice	
Date syrup Erythritol, no calories	
Golden syrup	
Honey	
Maple syrup	
Rice syrup	
Stevia (100 %)	
Sugar, brown	
Sugar, white	
Xylitol, 40 % less calories than sugar Yacón syrup	
weet pastries (Ready-to-eat)	
Apple strudel Cake, curd-oil-dough	
Cake, sponge cake	
Cake, yeast dough	
Cookies/Biscuits	
Cream cake	
Fruit tart	
Waffels	
weet spreads	
Chocolate-hazelnut spread	
Fruit jelly, all kinds	
Jam, all kinds	
Pear & apple spread, no added sugar	
Beverages	
Icoholic beverages	
Beer (5 %)	
Brandy (32 %)	
Cider (5 %)	
Kölsch beer (5 %)	
Pale lager (5 %)	
Sparkling wine (11-12 %)	
Table wine, white (9-10 %)	
Wine, red (10-12 %)	
Wine white (10 12 %)	
Wine, white (10-12 %)	
on-alcoholic beverages/softdrinks	
on-alcoholic beverages/softdrinks Coke	
on-alcoholic beverages/softdrinks Coke Coke, no sugar (light)	
on-alcoholic beverages/softdrinks Coke	

Fermented softdrinks (e. g. Bionade)	
Ice tea	
Ice tea, light	
Malt beer (0.04 - 0.6 %)	
Sprite	
Fruit juices and smoothies	
Apple juice, freshly-squeezed	
Banana juice, direct juice	
Beetroot juice, direct juice	
Blood orange juice, freshly-squeezed	
Buckthorn berry juice, freshly-squeezed	
Carrot juice, direct juice	
Elderflower syrup	
Grape juice, direct juice	
Grapefruit juice, freshly-squeezed	
Juice spritzer, home-made, 3(water):1(juice)	
Orange juice, freshly-squeezed	
Pineapple juice, direct juice	
Tomato juice, direct juice	
Hot beverages	
Cappuccino (without sugar)	
Coffee (no milk, no sugar)	
Coffee (with a little milk, no sugar)	
Coffee, sugared	
Coffee substitute	
Cereal-based coffee	
Malt coffee	
Chicory-based coffee	
Latte Macchiato (no sugar)	
Tea (no sugar)	
Meal replacements	
MetaShake, Type Alpha	
MetaShake, Type Beta	
MetaShake, Type Gamma	
MetaShake, Type Delta	
Smoothies	
Fruit smoothie, freshly made	
Green smoothie, freshly made	
Other beverages	
Beer, alcohol-free	
Brottrunk	

Kombucha (fermented tea)
Sparkling wine, alcohol-free

Fanta



The CoGAP® Nutrition Portal

The nutrition portal of CoGAP® (http://healthy-eating.cogap.eu) offers the possibility of receiving recipe suggestions as well as diet and nutritional programmes that are adapted to the calorie requirements in accordance with the meta-type. These take into account not only the meta-types but also other personal characteristics such as gender, age, height, weight and physical activity.



BMI calculator, Calorie requirement, Sports and Nutrition tips



















Sports section

Burn calories effectively!









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Many people pursue the goal of building their muscles through sporting activities. The basis for a successful training plan to build muscle is the composition of your own muscle fibre. There are basically two types of muscle fibers: red muscle fiber (slowly twitching) and white muscle fiber (fast twitching). The composition of the muscle fibre is determined primarily by genetics and is therefore highly individual and differs from person to person. So if you know your own muscle fibre composition, you can perfectly adapt your training plan to build muscle.



In addition to effective muscle building, any form of exercise can generally have a positive impact on your fitness, health and well-being. Due to the increased energy consumption, weight loss is thus favoured. However, your genetic predisposition has an influence on which activities help you burn more calories. While the endurance version E (like "Endurance") is characterized by a high calorie consumption during endurance training, the (fast) power version S (like "Speed" or "Speed-Power") shows a significantly higher calorie consumption for both speed and muscle strength-based training types.

In a successful weight reduction plan, it is also important to regularly observe the development of the body by means of a profound body analysis. An extensive analysis includes the measurement of the individual relevant body compartments such as body water (TBW), fat-free mass (FFM), lean mass (LBM), fat mass (FM), body cell mass (BCM) and extracellular mass (ECM).







Your sport variant

Factor	Effect	Speed	Endurance
Exercise	Endurance		

You have the **Sport-type E**. This means that you will have a more effective and therefore higher calorie consumption in all endurance-based sports (such as jogging, Nordic walking, swimming and rowing) than in speed strength-based sports.

Make the most of your genetic disposition and prioritize your training with endurance-based sports. For a 60-minute training plan, we recommend a distribution of endurance sports to speed and strength-based sports as depicted in the diagram below.

Nevertheless, any form of regular exercise is suitable for increasing your basal metabolic rate in the long term. If you are able to cope better with speed-strength training, it is advisable for you to integrate this more strongly into your training plan, instead of doing without sport altogether.

In addition, you should always ensure that the training is appropriate for your circumstances and does not lead to health issues, such as joint problems caused by excessive strain. Therefore, your training plan will be developed together with your trainer according to your personal needs, wishes and goals.





Further individual recommendations

For your sport variant E (Endurance), sports such as jogging, swimming, inline skating, cycling or walking are suitable. First of all, general stamina or basic endurance should be trained. The training can be structured as follows:

Training method

Focus on strength endurance training and (strength) enduring courses

Strength training

Strength endurance (approx. 15 – 20 repeats)

In addition and especially useful

Continuous method for cardiovascular equipment (basic stamina 50 – 70% max HF)

Training frequency

At least twice a week







Regeneration

While trainers and athletes put a lot of thought into designing a perfect training plan so that the body changes positively as quickly as possible, the regenerative measures are unfortunately often neglected. However, it is during this regeneration phase that the desired anabolic processes take place. A smart athlete will therefore give as much thought to suitable regeneration measures as to the training itself. If the ratio of load (training) and recovery time (rest) between units is correct, the supercompensation effect (the body builds up an energy buffer in order to be able to perform better) can be optimally exploited. If the ratio is not right, if training is done too often and possibly additionally too hard over a longer period of time, overtraining with overload of tendons, fasciae and joints can occur. Here oxidative stress in the individual cells and inflammatory reactions play a special role and can have a considerable negative influence on regeneration after strenuous training sessions. The muscles do not grow, they stagnate and the own performance can no longer be improved.

Your individual genetic evaluation has shown that your recovery ability is within the normal range. To ensure that you recover sufficiently, we recommend that you train your different muscle groups twice a week for optimal muscle growth. Please keep this in mind when creating a training plan so that you can prevent long-term muscle injuries.





Your sport type and EMS training

Electro-Myo Stimulation Training (EMS) enables you to effectively train all the muscles of your body. In addition, you can define various parameters of the EMS training, for example, you can adjust the frequency, duration of contraction and duration of use to suit your personal sport type, resulting in effective calorie consumption.



According to your sport type **Sport-type E**, we recommend that you adjust the parameters of the EMS training with the help of your trainer as follows, so that it corresponds to your genetic predisposition so that you effectively burn calories:

Training method	EMS-Training
Training frequency	Once a week (or at least 4 days break)
Training time	15 - 20 min
Intensity	low to medium
Supplementary training	1 - 2 times a week metabolic program or endurance training







Further suitable course offerings

If you are interested in attending sports courses, please refer to the following list. This offers you a large selection of courses, which are suitable for your sport variant.

We wish you much fun and success!

Cardio Courses

Aqua jogging, AquaFit, Basic Aerobic, Basic Cycling, Dance Moves, Energy Aerobic, Energy Step, Fatburner Cycling, Simple Power Aerobic, Step &Tone

Health Courses

Back & FlexiFit, FitBall, Pilates, Stretch & Relax

50+ Courses

Back & Flexifit, Dynamic Pilates, Start up Cycling, Start up Moves

Strengthening Courses

Belly X-Press, BTB (Butt, Thighs and Belly), Iron Back

Other courses

Aerobic, Aqua Fitness, Belly intensive, BodyBalance, BodyCombat, BodyPump, Body Workout, BOP, Bosu-Cardio, Bosu-Workout, Fatburner, Fit 40+, Fitmix, Flexibar, Hip Hop, Kinesis Gym, Latin Moves, Pilates, SH`BAM, Spine, Step, Step workout, Zumba Fitness





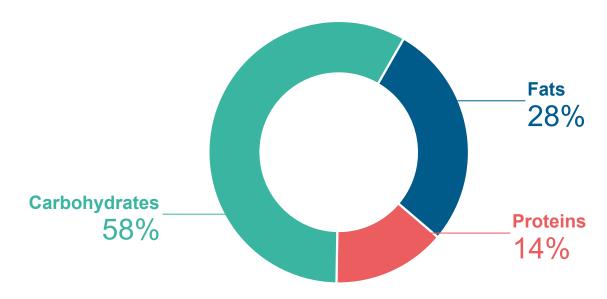




What's next?

Phase 2: The long-term weight loss and stabilization phase

This distribution is adapted to your individual strength of expression and is intended for the long-term weight loss phase or weight stabilization after the first 4 weeks. In order to ensure a balanced diet, you should adhere to the macronutrient distribution specified by us for the long term. With this distribution, you can continue to lose weight in a sustainable way and at a healthy pace after the first 4 weeks, or you can use it to maintain your target weight.



MetaCheck and Social Media

share your success in the social media and use the opportunity to exchange ideas with other MetaCheckers! Visit our social media channels and look forward to exciting information about nutrition, meta-type recipe ideas and interesting sport tips! Follow us:







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