# JUICING FOR EXERCISE



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Disclaimer: The information contained in this eBook is strictly for informational purposes. It is not intended as medical advice. Every possible effort has been made in preparing and researching this material. We make no warranties with respect to the accuracy, applicability of its contents or any omissions. You should always consult a physician before starting any workout routine.

# **INTRODUCTION**

Juicing is a great way to get your body pumped and primed for a lengthy workout session. When you juice, you cram loads of essential nutrients into one glass that will power your workout and improve your results.

Besides the important health benefits, key plant nutrients give you energy so you perform at your best in your workouts and get the most out of your exercise efforts.

Because a lot of us don't like eating whole fruit and vegetables, we struggle to get our fill of the essential micronutrients.

Micronutrients are gems of nature for our bodies and minds. Without them, our bodies aren't ready for a workout.

Juicing is a fantastic and tasty way of stuffing yourself with the right amount of nutrients at the right time in a convenient manner.

Get ready to learn all about the ultimate warriors of the juicing world. You're going to discover the nutrients, the fruit, and vegetables that enhance your workout, boost your staying power, and help you take your exercise regimen to the next level.

Let's go!



# THE ROLE OF NUTRITION IN EXERCISE

Perhaps you already know that **what** you eat is really important. But what you're perhaps looking to learn is why **when** you eat is so important too - especially if you exercise.

If you drink the right nutrient-stuffed juice an hour or two before exercise and follow it up with another an hour or two after your exercise, you're pretty much meeting all your workout nutrition needs. You don't really need anything else.

However, it can also depend on what you're looking to get out of your workout. If, for example you're an endurance athlete who trains every day for high-level competition, you'll need more carbs and calories than the average person who exercises. You also need more protein.

On the other hand, maybe you're training as a bodybuilder who lifts weights in order to seriously grow muscles. Because you're looking to gain more weight, you'll need more protein and carbs. Alternatively, you may be looking to get ready for a fitness competition, in which case your cab intake should be reduced.

It also comes down to your body type. If you have an **ectomorph**, you'll probably be looking to gain more muscle. If you have a **mesomorph**,



you'll probably be looking to optimize your physique. If you have an **endomorph**, you'll probably be looking to lose body fat.

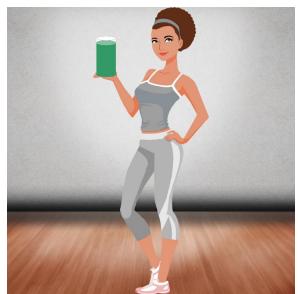
However, it all comes down to the same thing: We all need nutrients to power us through a workout, and juicing them is just plain easier and faster than eating them.

#### PRE-WORKOUT NUTRITION

What and when we eat before we workout can often make a huge different to not only your performance, but also the way you recover.

You need to eat or drink about two to three hours before a workout with nutrients that will:

- Sustain your energy
- Boost your performance
- Keep you nicely hydrated
- Preserve your muscle mass
- Speed up your recovery time



#### **CARBOHYDRATES**

Carbs are important because consuming these before exercise will fuel your training, giving you lots of energy, and they will also help you recover.

Many people say that you only need carbs if you're going to be engaged in a lengthy workout session, but that's just not true.

Let's say you want to do a shorter workout, but you want it to be high-intensity. You need lots of energy, right?

Unless your idea of exercise is to go for a stroll in the park and feed the birds, you're going to need to stock up on carbs.

Carbs also retain muscle and liver glycogen, which is important because it is this that tells your brain you have been well fed and don't need any more food during your workout.

The last thing you want is to get hungry after 30 minutes. Carbs also stimulate the production of insulin, which prevents protein breakdown. Moreover, this is why you absolutely need to start juicing and stop drinking sugary energy drinks.

#### **FATS**

Healthy fats are another essential macronutrient that you need.

The funny thing about fats is that they don't improve your performance - but they don't really weaken it either. What they do is slow down digestion, which keeps your body on an even keel in terms of its insulin and blood glucose levels. They also provide you with some micronutrients, too.

#### **PROTEIN**

You can drink some of your juice during exercise, and it should be high protein because protein helps to prevent muscle breakdown, which leads to a better recovery postworkout. It also ensures that you adapt better to training as you progress, which means that you are better able to power your way through your workout.

You don't need a massive amount of protein in your juice; just a small amount is enough to prevent protein breakdown. If you like exercising on an empty stomach, then you don't need any more than around 15 grams of protein during training.

Athletes who do punishing training bouts need more protein, as does anyone who is looking to gain a significant amount of mass.

#### **MICRONUTRIENTS**

Lots of people know how to get their macronutrients - such as fats, carbs and protein - but they don't always stop to think about the role that vitamins and minerals (micronutrients) play in helping them power their way through a workout.

- ✓ Micronutrients play a really key role in energy production
- ✓ They also help to strengthen bones, boost your immune system, instigate hemoglobin synthesis, and protect you against oxidative damage
- ✓ Vitamins and minerals also repair muscle tissue that has been damaged during exercise.

You have to remember that workout stresses numerous metabolic pathways, and if we are to stay on top of these pathways and aid their recovery, we need micronutrients.

It's the same as when a car breaks down on a highway - it needs assistance from an auto repair company, otherwise, it's just dead on its wheels.

Moreover, when we exercise more and more, we experience muscle biochemical adaptations. To cope with these changes, we need even more micronutrients.

Even routine exercise can lead to a loss of too many micronutrients. These leaves you feeling fatigued. It doesn't help you to finish off a workout. Your body takes ages to repair, and you may even come away with a few injuries.

#### The key nutrients that athletes include in their diets are:

- Calcium
- Vitamin B
- Vitamin C
- Vitamin D
- Vitamin E
- Iron
- Magnesium

And the best place to get more micronutrients?

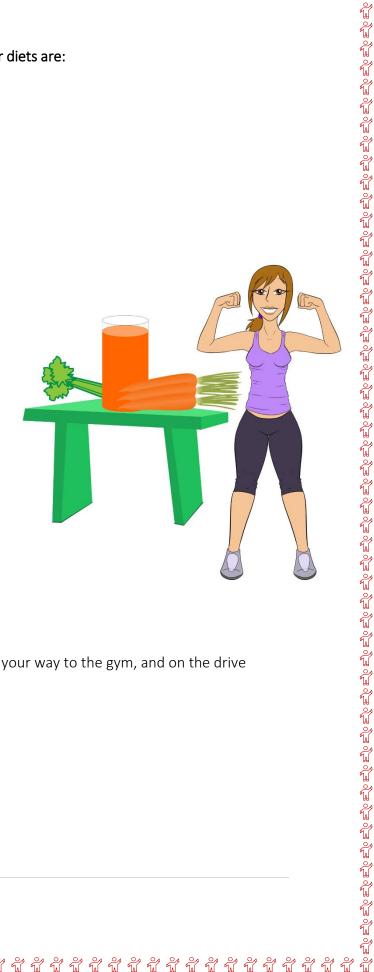
From juicing, of course.

## Why?

Juicing is easy, and convenient, what is more convenient than drinking your nutrients?

An 8-ounce vegetable juice blend is like eating 2 large salads without the dressing.

It's portable, so you can easily drink them on your way to the gym, and on the drive home!



# **KEY NUTRIENTS THAT POWER YOUR WORKOUT**

#### **B-VITAMINS**

If you've been working out for almost an hour but you find yourself running out of steam towards the end, the problem could be that you're lacking in B vitamins.

#### B Vitamins include:

- Thiamin
- Riboflavin
- Vitamin B-6
- Folate
- Vitamin B-12

If you've ever bought an energy drink, you may have noticed that they contain nutrients from the B-vitamin family, including thiamin, B12, riboflavin, and many others. The reason for this is that B-vitamins give you a burst of energy. They're essential for the conversion of food into fuel. Essential really means essential because without them you will have little energy. The body uses the B-vitamins to convert sugar and protein into fuel so athletes get as many of them as they can.

According to experts from the Department of Nutrition at Arizona State University which posted on MedlinePlus Health Information, B-vitamins, which include thiamin, riboflavin, and vitamin B-6) are necessary for energy-producing pathways in the body. Additionally, folate and vitamin B-12 are necessary to synthesize new red blood cells and to repair damaged cells. Active individuals with a B-vitamin deficit may experience diminished performance during high intensity workouts.

The major difference between vitamin B from juices made at home and that energy drink is the latter is filled with other bad ingredients that have landed people in the emergency room, but your juice only has fresh produce and nutrients - Winning!

#### **CALCIUM**

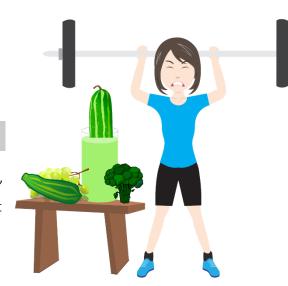
You've probably heard all about calcium and how it strengthens the bones and you probably realize that a super strong skeleton is fundamental if you're going to working out, right?

Therefore, it makes sense that calcium should be one of the key nutrients that power your workouts. It increases your bone density, which ensures that your skeleton is strong enough for a great workout.

Milk is not the only source of calcium, you can get it from vegetables, and it's a better source since vegetables have no fat, no cholesterol, and they are low in calories.

#### VITAMIN C

Did you know that if you work out in colder climates, you could suffer from exercise-induced asthma? Not to raise any alarm bells, but that chesty cough you've been battling with these past few months could in fact be asthma.



In addition, it could be that your immune system is not as healthy as you might think. This can be resolved with Vitamin C, which naturally occurs in citrus fruits and various vegetables, and can boost your immunity, protect your cells from free radicals, and a slew of other functions that builds a better body that is powered for exercise.

Moreover, the more vitamin C you have, the easier it is to avoid contracting the flu and the common cold.

#### **VITAMIN D**

We all need vitamin D, right? Vitamin D comes from the sun and it makes us feel amazing. For many of us, the more sun we have the better we feel. It just imbues us with positivity and motivation. Vitamin D boosts your mood, and in this way, it can increase your determination to make it through a workout like a beast.

However, your mood alone will not get you through all the obstacles; you need something more. You need power, too. You don't need to go searching too far, though, because according to Science Daily vitamin D has been studied and found to be linked with increased muscle efficiency.

It may also be fantastic at tightening up your skeletal muscle function. These are some pretty awesome findings.

#### VITAMIN E

When we're sick, we don't really feel like doing anything. We're just not at our best. We don't feel like filing all those documents at work, going out on that date tonight ... and we especially don't feel in the mood for powering through the workout.

It's funny, but it always seems as though some people are more susceptible to getting sick than others are. Perhaps it's you that always seems to be sick, while your friends are constantly motoring through their workout like a warrior.

The reason for this could be that you defficent in vitamin E. Consuming more vitamin E can lower your risk of infection. It can make you almost immune to the common cold, the flu, and can slash your risk of developing pneumonia by almost 70%.

#### **IRON**

Popeye loved his spinach because he knew it contained lots of iron that would power his way through a workout. His nemesis Bluto must have loved the dark leafy green even more, because he was even bigger!

Iron is one of the key nutrients you need a lot more of if you want to own your workouts

and fight fatigue; it's also integral in the metabolizing proteins, hemoglobin production, and red blood cell health.

#### Here is some quick science:

- Each time you work out for an hour, your body loses around 5.6% of iron. That's quite significant.
- What happens next is your red blood cells struggle to carry as much oxygen to your muscles.
- Moreover, when your muscles don't get enough oxygen, you quickly get fatigued and may not be able to complete your workout.



#### **MAGNESIUM**

Magnesium is an absolute powerhouse mineral that top athletes make a priority.

Magnesium is actually composed of over 300 enzymes that aid energy metabolism.

It also helps to strengthen your bones, which as previously mentioned is vital for your workout. As well as having a strong skeleton, you always need to avoid stress fractures as much as possible, and magnesium will help you do just that.

In addition, because you lose a lot of magnesium through sweat, you really need to consume as much of it as possible to replenish the supply lost in your workouts.

# **POTASSIUM**

No doubt, you've seen tennis players munching away on bananas during a break in play.

This is because bananas are super rich in potassium, a vital nutrient that speeds up recovery and nips cramps in the bud.

# JUICING FOR MICRONUTRIENTS: KEY INGREDIENTS

Now that you know that what key micronutrients you need to power your workout, you're probably wondering about the best sources for these, here are your best fruit and vegetable sources that will provide you with much needed nutrition through power juicing.

## Calcium

Calcium is found in quite a few great juicing vegetables, which means that you get to choose what works for you.

- Kale is incredibly rich in calcium, and is one of the most popular juicing vegetables, making up the bulk of the very healthy green juice. It delivers 139mg of calcium per every 100g serving. The best thing is that it's easily absorbed by the body.
- Broccoli is another great vegetable for juicing that is a fantastic source of calcium, and a single cup serving returns around 74mg.
- Spinach is a good leafy green alternative to
   kale (or you can juice both together), that contains around 145mg of calcium for every 100g serving. Yes, that's even better than kale.
- **Kelp** is also another fantastic source of calcium; a single cup serving returns around 136mg of this essential nutrient.



#### Vitamin C

Vitamin C could easily turn out to be your favorite micronutrient because so many tasty fruits and vegetables are loaded with it.

- The exotic and super delicious guavas always add a kick to juices, and a 100g serving contains a whopping 228mg of vitamin C.
- **Kiwifruit** might be something of an acquired taste, but if you love it, you're going to love the fact that a 100g serving contains 92mg of vitamin C.
- **Strawberries** are also rich in vitamin C, with a 100g serving containing almost 60mg of the nutrient.
- Then there are the zesty **citrus fruits**, ideal for juicing and especially to enhance the flavor of vegetable juices. **Lemons, limes, grapefruits** give you around 53mg of vitamin C per fruit.

• Apples contain lots of vitamin C, as do tomatoes, kale, and broccoli.

#### Vitamin E

- Avocados don't juice well, however they can be blended and mixed in with juice for a half and half smoothie juice blend. A 100g serving is enough to return 2.2mg of the often hard-to-get-hold-of vitamin E.
- Sunflower seeds are loaded with vitamin E, 36mg for every 100g serving and they are a great source of healthy fats. You can sprinkle these on top of your juice or grind them up and stir into a ready-made juice.
- **Broccoli** is also a good source of vitamin E, with a 100g serving delivering 1.5mg to your body and broccoli juices great.
- Squash and pumpkin return around 1.3mg each per 100g serving, while blackberries are 8% vitamin E, peaches are 7%, and raspberries are 5%.

#### Iron

- You can look to spinach for your iron intake. This dark leafy green vegetable delivers
  3.57mg of iron per ever 100g serving.
- Asparagus is another good source, and returns 2.14mg of iron for every 100g serving.
- Berries are really good sources, too:
   elderberries are 13% iron, while
   raspberries are 9% and blackberries
   are 5%.
- If you want to try something a little bit different in your juice, how about coconut? A 100g serving contains 3.32mg of iron.



#### **Potassium**

Many fruits and vegetables are rich in potassium.

- Guavas, which contain 417mg per 100g serving.
- Bananas are well known for their potassium content, and they return 358mg per 100g serving. Bananas don't juice, but they blend so you can stir them into your finished juices.
- **Spinach** juices great and has 167mg per I cup, if you juice 3 cups you are getting more than 15% of the daily recommended value of potassium.
- Passion fruit should be on your grocery list too, as this silky fruit contains 348mg per 100g serving.
- Apricots are also a good source of potassium, with every 100g serving returning 259mg.
- Pomegranates contain 236mg per 100g serving, while cherries deliver 222mg to your body.

## Magnesium

- All dark leafy greens, including **Kale**, **spinach**, **chard**, **and collard greens** are high in magnesium.
- Cherries, coconut, papaya, bananas, watermelon, and peaches are your best fruit choices for magnesium intake.

#### Vitamin D

There are many choices in great juicing fruits and vegetables for vitamin D.

- Kale is one of the best sources of vitamin D supplying 6,693 IU per cup
- Spinach comes in second with 2,813 IU per cup
- Swiss chard has 2,202 IU per cup
- You can also get it from, kohlrabi, asparagus, bitter melon including the leafy tops,
   broccoli, cauliflower, zucchini and cucumber
- Grapefruits with 2,830 IU per fruit
- Mangoes 1,785 IU per 1 cup
- Papaya with 1,492 IU per 1 small fruit
- Tomatoes, with 1,025 IU per 1 medium tomato
- Watermelon has 865 IU per 1 cup diced
- Other fruits include, cranberries, gooseberries, grapes, passionfruit, and peaches



#### **B-Vitamins**

#### Riboflavin

Vegetable sources include beet Greens, Asparagus, spinach, collard greens, Dandelion Greens and other dark green leafy vegetables, peppers, Brussels sprouts, Asparagus and Broccoli.

Fresh fruit sources include **blueberries**, **apples**, **passion fruit**, and **avocado**. When it comes to fruit, many offer higher counts in dried form which is not appropriate for juicing, plus dried fruit is not your best choice in any case, since it is much higher in sugar than fresh fruit.

#### **Folate**

Vegetable sources include leafy greens such as spinach and turnip greens

Fruit sources include **oranges** with the most at about 50 mcg per fruit and one large glass of orange juice providing even more. Other folate-rich fruits include **grapes**, **banana**, **cantaloupe**, **papaya**, **grapefruit**, and **strawberries**.

#### Vitamin B6

Vegetable sources include leafy green vegetables: spinach, kale, greens, and broccoli.

Fruit sources include bananas.

# THE POWER OF BEETS

This chapter is dedicated to beets, which can go a long way to power your workouts and improve your overall performance.

#### BEETS CONTAIN A WEALTH OF NUTRIENTS

Yes, beets contain a wide variety of healthy nutrients, including:

- Beets are a unique source of phytonutrients called betalains that have antiantioxidant, anti-inflammatory, and detoxification properties.
- Beetroots are rich in inorganic nitrates, which are compounds that encourage the signaling molecule Nitric Oxide to take action.

- Folate 34% DRI/DV per 1 cup
- Manganese 28% DRI/DV per 1 cup
- Potassium 15% DRI/DV per 1 cup
- Copper 14% DRI/DV per 1 cup
- Fiber 14% DRI/DV per 1 cup
- Magnesium 10% DRI/DV per 1 cup
- Phosphorus 9% DRI/DV per 1 cup
- Vitamin C 8% DRI/DV per 1 cup
- Iron 7% DRI/DV per 1 cup
- Vitamin B6 6% DRI/DV per 1 cup

#### **BENEFITS**

- ✓ Beetroots are so good for you as they improve brain functioning, which is what you need when the tough gets going down at the gym. Many people underestimate the power of mental resilience, but you should never underestimate it.
- ✓ Beets also promote stronger bones, and as we all know a super strong skeleton is essential for a good workout.
- ✓ Beets also boost your immune system lowering your chances of getting sick and missing days at the gym.

Yet people keep on ignoring these purple veggies whenever they do their weekly shop. As a matter of fact, beetroots must be one of the most overlooked veggies in America. It's amazing how people who see these colorful vegetables screaming at them "pick me! pick me!" but opt for lettuce again, as usual.

Get out of your comfort zone, and get into juicing beetroots. Elite athletes all around the world use them, and they'll tell you that beets are the vegetables that give them the edge over their competitors.



#### THE SCIENCE BEHIND BEETS

Beetroots are rich in inorganic nitrates, which are compounds that encourage the signaling molecule Nitric Oxide to take action.

NO is made in our bodies but we don't always produce very much of it. To produce more of it, we need to eat food that is rich in nitrate - such as beets.

NO improves the strength of our skeleton, and increases the amount of oxygen that is sent to our brain.

## WHY JUICE BEETS?

According to research, drinking around 500ml of beetroot juice per day can keep us feeling more energetic. In fact, drinking beet juice can keep us going in the gym for 15% more time than we normally would.

Many people think that juicing just takes up too much time, and it's too messy. However when you have the right equipment and plan ahead, it is much easier than you think.

If you have the time to make yourself some juice in the morning before a workout, this is something you should definitely think about doing.

Alternatives include beet powder and concentrated juices, but these are often filled with artificial substances, too much sugar, and not enough fiber or nutrients - basically, they don't have the same amount of good stuff as beet juice does.

#### How Much Do You Need

As previously stated, 500ml of beet juice per day is enough to increase our staying power by around 15%. This equates to 2 cups. However, go ahead find a dose that works for you, if 250ml of beet juice a day increases your staying power by 10%, then go for it.

Some athletes drink more than 600ml, but again it's all about how much you can handle.

#### Cooked Or Raw

Research in the past has shown that cooking beetroots can reduce the nitrates content - which is not what we really want. For this reason, it's best to juice with raw beets only.

#### **Drink It Slow**

It takes a while for the nitrates in beets to be ingested, and used by your body. They enter our mouth, where they are manipulated by saliva. This takes a bit of time, so if you clean your teeth not long after eating (and many people do this after eating beets in order to get rid of the purple color) you will only be washing all the beneficial nitrates out of your mouth. Drink slowly for better conversion rates.

#### Does It Work For Everyone?

Beet juice works for many people, many boost their workouts, but like with anything, our body's all respond in different ways. What works for some might not work for others. The only really accurate way you can find out is by giving it a go. Other high nitrate vegetables include spinach and kale.

# 10 WORKOUT BOOSTING JUICING RECIPES

Here are some great juicing recipes to power your workouts. These recipes pack a lot of punch and they will fuel your pre and post-workout routines.

Preparation of these juices will depend on your juicer model, as they are all different in requirements for cutting, speed settings and order in which to juice.

## Get juicing!

#### **MAGNESIUM MAGIC**

Too many of us don't get enough magnesium, yet this micronutrient plays an essential role in a solid workout. If you're looking to find a way of sneaking more of this mineral into your diet, this represents a fantastic way to do so.

#### Ingredients:

- Large Handful Of Parsley
- 3 leaves of chard
- 1 Cup Watermelon
- 4 carrots
- 1 Peach
- 2 Celery Stalks Including The Leafy Tops
- 1 Lemon



#### DYNAMITE BLEND

Stop reaching for a sports drink after your exercise, and start making this antioxidant-and vitamin C rich juice instead. It's super rich in all your essential vitamins and minerals.

#### Ingredients:

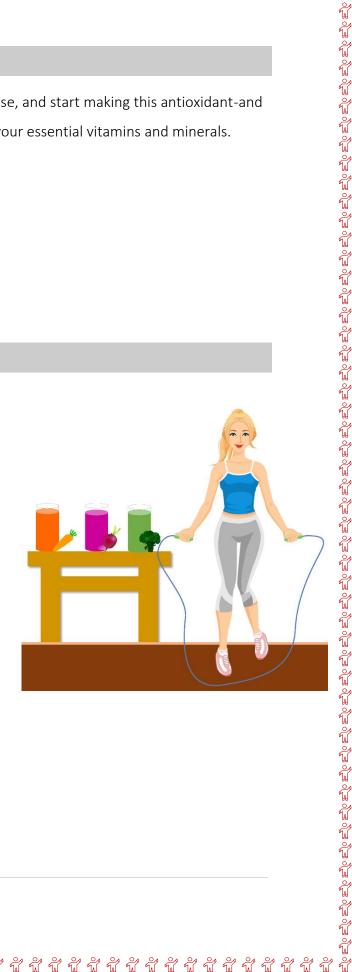
- 1 Orange
- 2 Kale Leaves (or collard greens leaves)
- 1 Green Apple
- 1 Lemon
- 1 Lime
- 4 Broccoli Florets (including stems and leaves)

#### **REPAIR AND RECOVERY**

This is nature's best antidote for aiding recovery so that you can go again soon. It helps to repair muscle and tissue damage and makes your body tougher over the long-term.

#### Ingredients:

- 1 Green Apple
- ½ Cup Strawberries
- ½ Pound Of Organic Tart Cherries
- 2 Celery Stalks
- 4 Kale Leaves
- ½ Cucumber
- ½ Lemon



#### THE RED RESURRECTOR

Tomato juice is super rich in electrolytes, and ideal for maintaining proper hydration during and before a workout. Tomatoes also have many other health benefits and essential antioxidants to prevent chronic disease.

This juice includes an added boost from coconut water, which is naturally rich in electrolytes, so you can skip the sports drink and get your energy from juice instead.

#### Ingredients:

- 1 Lemon
- 5 Medium Carrots
- 2 Tomatoes
- 1 Cucumber (super hydration)
- Handful Of Cilantro
- 1/ Cup Of Coconut Water



## **BEET POWER JUICE**

#### Ingredients:

- 3 carrots
- 3 kale leaves
- 1 Beet Including Leafy Tops
- 1" Piece of Fresh Ginger
- 1 Garlic Clove
- 1 Lime
- ½ Grapefruit

## POST WORKOUT BLISS JUICE

Another great all natural post-workout recovery blend.

#### Ingredients:

- 2 Beets (nitric-oxide to oxygenate the blood)
- 2 Pears
- 1" piece of ginger (anti-inflammatory)
- 1 Handful Of Spinach (strong bones)
- 1 cucumber (super hydration)

## PRE-WORKOUT ENERGY BLAST JUICE

Get all the energy you need for your intense workouts with this refreshing blend.

#### Ingredients:

- 3 Beets
- 2 Large Carrots
- 2 Green Apples
- 2" Piece of Fresh Ginger
- 1/4 Lemon
- 1/4 Lime

## **IRON INFUSION JUICE**

This juice is loaded with healthy iron rich vegetables for healthy production of hemoglobin, healthy red blood cells, and fighting fatigue.

#### Ingredients:

- 1 Apple
- 1 Orange
- 6 to 7 Spinach leaves
- 1/2 Beet Including The Leafy Tops

## **GREEN IRON POWER JUICE**

Another iron rich blend, with super healthy greens and ginger that fights inflammation.

#### Ingredients:

- 35 Spinach Leaves
- 25 Sprigs Of Fresh Mint
- 15 Sprigs Of Fresh Coriander
- 1/2 Lime
- 1" Piece Of Ginger
- 1/2 Lemon

# VITAMIN D INFUSION JUICE

Get your vitamin D fix from this blend.

#### Ingredients:

- Handful Of Kale leaves
- Handful Of Spinach Leaves
- 1 kohlrabi
- 1 Cucumber
- 1 Mango
- 1 Grapefruit
- 1 Peach



# CONCLUSION

Juicing is a quick and convenient way to get all those micronutrients you need. You can make enough juice for 2 or 3 days and take it along to the gym in a thermos or have it within easy reach in your fridge when you come back from a run.

Its convenience can't be beat, eliminating the time and inclination to chew up to 3 or 4 bowls of vegetables every day.

Juicing is something that helps you to reach your goals. It is enjoyable - most people love it - and you can experiment as much as you want.

