



# YOUR NUTRITION GAME PLAN



## A Successful Formula for Gaining Muscle Mass



Adding muscle mass is hard work. To get the most benefit from your hard work, you need to do three things: train right, get enough rest and eat right.

### Follow a Good Training Program

Muscle growth results from progressive resistance training. The resistance program for building muscle generally includes two to four sets of 8-12 repetitions. To prevent injuries and maximize your efforts, practice safe and correct lifting techniques. Guidance by a professional trained in strength and conditioning can help.

### Get Enough Sleep

Muscles tend to "grow" during rest, and especially during sleep. A hormone in your body that spurs muscle growth, called growth hormone, is highest when you sleep.

Getting enough sleep isn't easy. Saying no to going out, turning down extra hours at work, missing your favorite show, and doing homework early are the types of sacrifices you may have to make in order to get the rest you need.

Needs for sleep vary from person to person. Nine hours a night on weeknights and more on weekends is a good place to start. Signs that you are getting the right amount of sleep are that you fall asleep easily at night and wake up in the morning without an alarm clock.

### Follow a Good Nutrition Program

The first nutrition goal is to eat enough calories to promote muscle growth. To build about 1 pound of muscle in a week, most athletes need 300-400 extra calories a day. You may need slightly more or less.

To know if you are eating the right amount, monitor your weight and body composition. Gaining 1/2 to 1 pound per week is a sign that you are eating the right amount. Faster weight gain might mean that you are eating too much, causing excess fat gain. If you can, have your body composition checked each time you add 5-10 pounds. Your calorie intake is on target if the measurement shows that most or all of your weight gain is lean tissue.

The second nutrition goal is getting enough protein. Research shows athletes need more than non-athletes do. The US Olympic Committee's protein guideline for athletes in heavy training is 1.2 to 2.0 grams per kilogram of body weight per day. One kilogram equals 2.2 pounds so a 220-pound athlete weighs 100-kg. A 100-kg athlete would require 120 to 200 grams of protein per day. An athlete weighing 75-kg, or 165-pounds, would need 90 to 150 grams of protein per day.

Protein is important, but don't ignore carbohydrates. After intense strength training, eating carbohydrates to replenish the muscle glycogen may help you recover faster and train harder. Aim for a daily carbohydrate intake of at least 5 grams per kilogram. That translates to 2.3 grams per pound.

The menu on the back side shows an example of a well-balanced, high calorie diet that provides generous amounts of protein and carbohydrate.

### Eating Habits That Work

Here are some tried and true nutrition techniques to put on lean mass:

- Eat at least five times a day, such as three meals and two

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snacks. Eating this often takes some planning. Stock your backpack, locker or glove box with convenient, non-perishable snacks like bottled drinks, cereal bars, raisins, trail mix, dried fruit, peanut butter crackers, peanuts, muffins, bagels, canned or fresh fruits, sport bars, or liquid meals.

- Eat many different foods. It's easy to get burned out on eating extra calories if you limit yourself to just a few foods.
- Eat breakfast, even if it's a shake that you drink while you dress, and even if it means setting your alarm a few minutes earlier. On days when

you can sleep in, set your alarm to get up to eat something, then go back to bed.

- Drink high calorie, nutrient-rich beverages like shakes, smoothies or commercial liquid meals.

### The Successful Formula

Your secret to success starts with a well-designed training program. Next in line is getting enough rest. Finally, you need a nutrition program to support your training and muscle growth. With these factors in place, you have the successful formula for gaining muscle mass.

## High Calorie/High Protein Menu

Amount	Food Item	Calories	Protein (g)	Carbohydrate (g)	Fat (g)
<b>BREAKFAST</b>					
1 1/2 cups	Raisin Bran Cereal .....	300	9	70	2
1 1/2 cups	2% milk .....	182	12	18	7
1 cup	Orange juice .....	114	0	27	0
1	Banana .....	109	1	28	1
1 slice	Toast with margarine and honey .....	120	2	18	5
<b>SNACK</b>					
1 cup	Grapes .....	114	1	28	1
<b>LUNCH</b>					
1/2 10" pie	Thick crust pizza .....	489	24	76	11
1 oz	Mini carrots (dipped in 2 tbsp. ranch dressing) .....	181	0	4	18
16 oz.	Vanilla Milkshake .....	308	12	55	5
<b>SNACK</b>					
1	Peanut Butter and Jelly sandwich .....	380	13	51	15
1-1/2 cups	Chocolate Milk .....	268	13	39	8
<b>DINNER</b>					
7 oz	Round Steak .....	357	63	0	10
1/2 cup	Broccoli with cheese sauce .....	84	5	6	5
1 large	Baked potato with 2 tsp. margarine .....	213	3	34	8
1 slice	Toasted Garlic Bread .....	190	4	25	8
2 cups	2% milk .....	243	16	23	9
1 cup	Peaches in heavy syrup .....	194	1	52	0
<b>SNACK</b>					
1	Tuna Salad Sandwich .....	289	18	32	10
1 cup	Grape juice .....	154	1	38	0
<b>TOTAL</b>		<b>4289</b>	<b>198</b>	<b>624</b>	<b>123</b>
Percent of total calories .....		(18%)	(58%)	(26%)	