

XS WebHealth Vitamin and Mineral Reference Chart

Nutrient	Daily Value	Functions	Dietary Sources	Comments
Fat Soluble Vitamins				
Vitamin A (retinol and/or beta carotene)	5,000 IU	Required for, vision growth and bone development; helps maintain healthy mucous membranes and immune system. Beta carotene functions as an antioxidant.	Preferred: Fortified skim or low-fat milk, dark-green, yellow or orange fruits and vegetables. Use Sparingly: Fortified whole milk, liver, egg yolks, butter, margarine	Large intakes (10 times the RDI) can be toxic. During pregnancy, avoid intakes greater than the RDI and seek the advice of a physician. Beta carotene is nontoxic; however, large amounts of beta carotene may not be beneficial for smokers and exsmokers.
Vitamin D	400 IU	Promotes normal bone growth and tooth function; stimulates calcium and phosphorus absorption	Preferred: Fortified skim milk or low-fat milk, fortified cereals. Use Sparingly: Fortified whole milk, liver, egg yolks, butter, margarine.	May be toxic with intakes greater than five times the DV (2,000 IU).
Vitamin E	30 IU	As an antioxidant, protects body cells, vitamin A and unsaturated fatty acids; maintains normal red blood cells.	Preferred: Whole grains, wheat germ, nuts.	Use Sparingly: vegetable oils. Vitamin E needs increase as intake of polyunsaturated fats increases. If using anticoagulant medication, seek advice of a physician.
Water Soluble Vitamins				
Thiamine B1	1.5 mg	Assists in carbohydrate metabolism and energy production; required for normal nerve function.	Preferred: whole grains, enriched breads and cereals, legumes, lean meats, poultry, fish. Use Sparingly: fatty meats, liver.	Water soluble; excess is excreted by the body.
Riboflavin B2	1.7 mg	Assists in production of energy from foods and the formulation of red blood cells	Preferred: low-fat or non-fat dairy products, whole grains, cereals, leafy green veg Use Sparingly: liver egg yolks	excreted by the body
Niacin	20mg	Assists in release of energy from carbohydrates, fats and proteins; helps maintain healthy skin.	Preferred: whole grains, enriched breads and cereals, lean meats. Use Sparingly: liver, fatty meats, eggs.	One form of niacin, nicotinic acid, can cause flushing of the skin and gastrointestinal upset with very high intakes (1,000 to 3,000 mg/day). Water soluble; excess is

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Pantothenic acid (vitamin B5)	10mg	Helps release energy from foods; needed for synthesis of many substances.	Preferred: lean meats, fish, whole-grain cereals, legumes. Use Sparingly: fatty meats, eggs.	excreted by the body.
B6	2 mg	Essential for protein metabolism and nervous system function; involved in synthesis of hormones and red blood cells.	Preferred: bananas, whole-grain breads and cereals, chicken, fish. Use Sparingly: avocados, nuts.	Very large intakes (more than 2,000 mg/day) over a period of months can result in a loss of motor coordination.
B12	6mcg	Essential for normal growth and for production of red blood cells; helps maintain a healthy nervous system.	(Animal foods only) Preferred: lean meats, chicken, fish, skim or low-fat dairy products. Use Sparingly: eggs, liver, fatty meats.	Water soluble; excess is excreted by the body.
Folic Acid	0.4mg	Essential for red blood cell formation and synthesis of DNA and protein.	Preferred: green leafy vegetables, oranges and other fruits, wheat germ. Use Sparingly: liver.	Adequate folic acid intake during reproductive years reduces risk of neural-tube birth defects.
Biotin	0.3mg	Involved in metabolism of carbohydrates and synthesis of fats and proteins.	Preferred: legumes, nuts. Use Sparingly: eggs, liver.	Water soluble; excess is excreted by the body.
C	60mg	Essential for Formation of connective tissue, bones and teeth; assists in utilization of other nutrients; acts as an antioxidant.	Preferred: citrus fruits, melons, strawberries, potatoes, broccoli, green leafy vegetables	Some people experience adverse effects with very large intakes.

Minerals

Nutrient	Daily Value	Functions	Dietary Sources	Comments
Calcium	1,000mg	Forms strong bones and teeth stimulates blood after injury; required for normal muscle and nerve activity	Preferred: Skim or low-fat dairy products, fish with edible bones, green leafy vegetables. Use Sparingly: whole-fat dairy products	Intakes of two grams or more per day can decrease absorption of iron, zinc or other minerals.
Phosphorus	1,000mg	Forms bones and teeth with calcium: regulates energy release	Preferred: lean meats, skim or low-fat dairy products,	Abundant in the average diet

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		from foods.	fish, poultry. Use sparingly: eggs.	
				Large doses may cause laxative effect.
Magnesium	400mg	Required for Normal Muscle and nerve activity; involved in metabolism of energy and the genetic material DNA.	Preferred: Green leafy vegetables, legumes, whole-grain cereals, seafood. Use sparingly: nuts, seeds.	
				Considered safe for healthy adults in amounts up to 75 mg/day.
Iron	18mg	Essential part of hemoglobin which carries oxygen in the blood; involved in energy metabolism.	Preferred: Lean meat, poultry, fish, whole grains or enriched cereals, legumes.	
				Large chronic intakes (more than 150 mg/day) can impair copper status and immune function.
Zinc	15mg	Essential for proper growth and development; involved in protein synthesis and digestion, wound healing, and synthesis of DNA.	Preferred: lean meats, poultry, seafood, whole-grain cereals, legumes. Use sparingly: egg yolks.	
Iodine	150 mg	As part of the Thyroid Hormone, helps regulate growth development and energy metabolism.	Preferred: Seafood, skim or low-fat dairy products. Use sparingly: iodized salt.	
Copper	2mg	Involved in Iron metabolism protein synthesis, maintenance of the cardiovascular and nervous systems.	Preferred: Legumes, whole-grain cereals, seafood. Use sparingly: liver, nuts.	
Manganese	2mg	Necessary for the normal development of skeletal and connective tissues; part of the enzymes involved in fatty acid synthesis; involved in carbohydrate metabolism.	Preferred: whole-grain products, green vegetables, legumes. Use sparingly: tea (while tea is in exceptionally rich source, large amounts may impair iron status.)	
Selenium	70cmg	As a component of an enzyme system: acts as an antioxidant.	Preferred: grain and cereal products, fish, lean meat, poultry, skim or low-fat dairy products.	

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Chromium	120mcg	Essential for the normal metabolism of glucose.	Preferred: vegetables, whole-grain cereals, fruits, brewer's yeast. Use sparingly: liver, cheese.
Molybdenum	75mcg	Essential part of several enzymes in the body	Preferred: legumes, whole-grain products, lean meats.

Phytonutrients				
Nutrient		Functions	Dietary Sources	
Allicin		healthy bones, aid in heart health and arterial health	White colored vegetables Garlic, Shallots Onions	Phytonutrients : <i>these are natural compounds found in plant foods such as vegetables fruit, whole grain products and legumes</i>
Alpha Carotene <i>provitamin A carotenoids - that is, may be converted by body to Vitamin A</i>		Helps promote cardiovascular health	Orange foods Pumpkins, oranges	<i>These plant compounds have beneficial effects working with other essential nutrients to promote good health</i>
Anthocyanidins <i>a subclass of flavanoids</i>		may help to improve memory	Purple/blue fruits grapes, blueberries	antioxidant properties
Beta-Carotene <i>provitamin A carotenoids</i>		for immunity and bone health A powerful anti-oxidant	orange fruits and vegetables pumpkin squash, tangerine oranges, sweet potatoes	
Beta-Cryptoxanthin <i>provitamin A carotenoids</i>		immunity, and joint health	orange fruits and vegetable pumpkin squash, tangerine oranges, sweet potatoes	
EGCG		may promote heart health and antioxidant protection	green tea	
Ellagic Acid		strong antioxidant properties help DNA and breaths health	red/brown fruits vegetables and nuts strawberries, pomegranates and walnuts	
Hesperatin		antioxidant and helps blood flow	Oranges	
IsoThiocyanate		may help DNA health	broccoli, cabbage, kale	
IsoFlavones		in modest amounts may help lower cholesterol	soy products	

