

CHOOSE THE **NATUREGG**™ THAT'S RIGHT FOR YOU

Simply Egg Whites™ Cholesterol and fat free





Omeαa Plus™ Provides 125 mg of DHA plus 125 mg of EPA omega-3 and 0.500 mg of lutein per 63 a servina. Excellent source of Vitamin D.

80% less cholesterol & fat *Compared to a 53 g large egg



Simply Egg Whites[™] are 100% pure egg whites and Omega Plus[™] and Break-Free[™] are a blend of real egg whites and whole egg.

DIETARY RECOMMENDATIONS

Protein needs vary according to age and gender throughout the lifecycle. According to current recommendations, adults should consume 10 to 35% of their total calorie intake as protein. This represents a range of about 50 to 175 grams of protein for an adult that consumes 2,000 calories a day.

Table 1 shows the Recommended Dietary Allowance (RDA), which represents the minimum daily intake, throughout the lifecycle. The daily RDA for adults, is 0.8 grams of good quality protein per kilogram of body weight.1

Good quality protein has an amino acid content that is well balanced compared to human requirements. Pregnant and breastfeeding women have the highest protein requirements.

Current evidence suggests that most adults could benefit from protein intakes above the RDA.²

RECOMMENDED DIETARY ALLOWANCES (RDA) FOR PROTEIN

LIFE STAGE & GENDER	AGE	RDA FOR PROTEIN* (GRAMS PER DAY)
Infants	7 to 12 mths	11
Children	1 to 3 yrs	13
Children	4 to 8 yrs	19
Children	9 to 13 yrs	34
Teenage boys	14 to 18 yrs	53
Teenage girls	14 to 18 yrs	46
Men	19 yrs & over	56
Women	19 yrs & over	46
Pregnant & Breastfeeding	All ages	71

^{*}Based on 1.5 g/kg/day for infants, 1.1 g/kg/day for 1-3 years, 0.95 g/kg/day for 4-13 years, 0.85 g/kg/day for 14-18 years, 0.8 g/kg/day for adults, and 1.1 g/kg/day for pregnant (using pre-pregnancy weight) and lactating women.

DIETARY PROTEINS ARE AN IMPORTANT SOURCE OF ENGERY.

WHAT ARE PROTEINS?

Many different foods contain dietary protein. Meat, milk products, eggs and legumes are important sources of dietary protein. Proteins are made of long chains of smaller molecules called amino acids. Dietary proteins are broken down by the body into amino acids which are then used as building blocks to synthesize new proteins in the body. Dietary proteins are also an important source of energy to fuel the body.

PROTEIN BENEFITS

- growth and development
- tissue formation and repair
- nervous system function
- brain function
- immune system function
- vitamin and mineral performance
- transporting nutrients and oxygen
- optimal calcium uptake
- disease prevention
- all enzyme function
- some hormone function
- providing a source of energy

FOOD FOR THOUGHT

IMPORTANCE PROTEIN IN YOUR DIET

For Better Overall Health

Wise Food & Lifestyle Choices



WHAT ARE PROTEINS?

body as:

Proteins are essential macronutrients that play

a vital role in tissue and cell growth and repair.

They have many important functions in the

•Structural proteins in joints and tendons

•Contractile proteins found in muscles

•Enzymes, hormones and antibodies

Neurotransmitters

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FARMS · FERMES

Check for Health Check™

2. Layman DK. 2009. Dietary guidelines should reflect new understandings about adult protein needs. Nutr Metab 2009; 6:12.

and exercise. I Int Soc Sports Nutr 2007: 4:8.

HEART &

PHYSICAL ACTIVITY

A higher daily protein intake of 1.2 to 2.0 grams per kilogram of body mass is generally recommended for athletes and physically active individuals.³⁻⁵

HEALTHY WEIGHTS

Higher protein intakes may be helpful for appetite and weight management. Protein promotes satiety, the feeling of fullness between meals, more than carbohydrate or fat.^{2,6,7}

HEART HEALTH

Weight loss diets rich in protein may also improve blood lipid (fat) levels and blood glucose (sugar) levels. This in turn may help reduce the risk of heart disease and diabetes.^{2,7-10}

HEALTHY AGING

Higher protein intakes above the RDA may also help adults maintain muscle mass and bone

density as they age. This in turn may help promote strength and mobility throughout life.^{2,11-14}

PROTEIN QUALITY

The quality of protein varies in different foods.

Protein quality is a measure of its ability to provide amino acids and nitrogen for the body's growth, maintenance and repair needs.

Protein quality is based on two key factors:

- I. The amino acids that make up the protein.
- 2. The ease with which the protein is digested.

Proteins from foods of animal origin such as meat, poultry, fish, milk and eggs are considered 'complete' because they have a pattern of indispensable amino acids that closely matches human needs. Proteins from plant foods such as grains, vegetables, nuts, seeds and legumes (with the exception of soy

Types of Amino Acids

Indispensable amino acids Dispensable amino acids Conditionally indispensable

protein) generally have
lower levels of one or more
of the nine indispensable
amino acids. Thus,
plant proteins are often
referred to as 'incomplete'
proteins. Proteins from
plant foods also tend to be
less digestible than proteins
from foods of animal origin.

TYPES OF AMINO ACIDS

The amino acids in dietary proteins can be classified in three groups according to whether they are essential:

- 1. Indispensable amino acids
- 2. Dispensable amino acids
- 3. Conditionally indispensable

There are nine indispensable amino acids that are considered essential. These amino acids cannot be synthesized by the body at a rate needed to support normal growth and must be supplied by the diet. Requirements for each of these indispensable amino acids vary according to age.

Dispensable amino acids are considered nonessential because they can be synthesized by the body. Some amino acids are considered conditionally indispensable because the body can normally synthesize these to meet metabolic needs; however, not in some circumstances such as in premature infants.

INDISPENSABLE AMINO ACIDS

Methionine Valine
Phenylalanine Isoleucine
Tryptophan Threonine
Histidine Leucine
Lysine

PROTEIN BALANCE

Insufficient dietary protein can be compensated for, in the short term, by drawing on body protein reserves. Such reserves can make up 5-7% of total body protein and are found mainly in muscles and the liver. When these reserves are depleted, muscle protein is broken down to provide essential amino acids for critical body functions such as liver

metabolism. The reserves are replenished when dietary

protein intakes return
to normal. Longterm dietary protein
deprivation results
in wasting of body
muscle mass,
lethargy and loss
of energy, edema
in the legs and feet
and adverse changes
in protein rich tissues
such as hair and skin.

EXCESS DIETARY PROTEIN

Consuming too much dietary protein can overburden the kidneys and may contribute to gout in some people.

Gout is a form of arthritis that causes painful swelling in joints, such as the big toe. Eating adequate amounts of good quality dietary protein in the recommended range helps to promote optimal health.

NUTRITIONAL VALUE

Whole egg protein is the conventional standard for measuring protein quality because it has an excellent balance of amino acids when compared to human requirements. Egg protein is also rich in albumins, a class of proteins that are highly water soluble and are fully digested.

In determining dietary protein quality, whole egg

protein is assigned a value of 100. Test proteins are ranked according to how closely they match the digestibility and indispensable amino acid profile of egg protein.

These rankings are almost always assigned values less than 100, as shown in Table 2.

TABLE 2 PROTEIN QUALITY AND CONTENT OF COMMON FOODS

	FOOD	TYPICAL SERVING	TOTAL FAT	TOTAL PROTEIN	PROTEIN RATING
	Omega Plus™ liquid eggs	63 g	2 g	6 g	100
	Simply Egg Whites™	63 g	0 g	7 g	100
	Break-Free™	63 g	1 g	6 g	100
	Regular eggs	53 g*	5 g	6 g	100
	Milk	245 g	5 g	12 g	77
	Chicken	100 g	15 g	21 g	80
	Salmon	100 g	10 g	20 g	85
	Ham	85 g	14 g	18 g	80
	Beef	85 g	14 g	24 g	80
	Pork	87 g	19 g	24 g	80
	Beans	256 g	1 g	13 g	56
	Wheat	115 g	1 g	12 g	44

^{* 1} large egg

PROTEIN AND EGGS

Table 3 compares the pattern of indispensable amino acids in whole eggs and the requirement pattern for people 1 year of age and older shows that whole eggs provide more of the indispensable amino acids per gram of protein (total 536 mg) than the Institute of Medicine's recommended protein digestibility corrected amino acid scoring pattern for proteins (total 287 mg/g).^{1, 15}

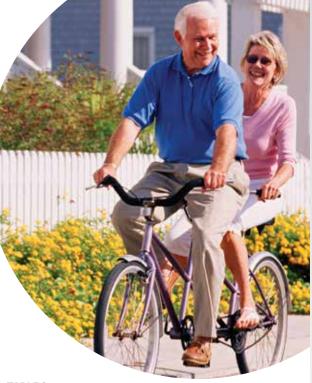


TABLE 3 INDISPENSABLE AMINO ACIDS

INDISPENSABLE

AMINO ACIDS	WHOLE EGGS ²	(FOR PEOPLE 1 YEAR OF AGE AND OLDER) ¹
Histidine	24	18
Isoleucine	63	25
Leucine	88	55
Methionine + Cystine	56	25
Phenylalanine + Tyrosine	98	47
Lysine	70	51
Threonine	49	27
Tryptophan	16	7
Valine	67	32
TOTAL ESSENTIAL AMINO ACIDS	536	287

PATTERN IN

AMINO ACID



JUST SHAKE & POUR ONE OF FOUR POPULAR FLAVOURS







Cheese and Chives

Southwest

- · Cholesterol and fat free
- · Trans fat free
- · Source of 11 important vitamins and minerals

Made from real egg whites, cheese, chives, red and green pepers, celery and onion.