

# Abbreviations Used in This Document

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ADI	Acceptable Daily Intake
AI	Adequate Intake
CCNFSDU	Codex Committee on Nutrition and Foods for Special Dietary Uses
DRI	Dietary Reference Intakes
EC	European Commission
EC SCF	European Commission Scientific Committee on Food
EFSA	European Food Safety Authority
EHPM	European Federation of Associations of Health Product Manufacturers
EPA	U.S. Environmental Protection Agency
ERNA	European Responsible Nutrition Alliance
FDA	U.S. Food and Drug Administration
FNB	U.S. Food and Nutrition Board
GL	Guidance Level
ICF	Intake from Conventional Food
IDS	Intake from Dietary Sources
IOM	Institute of Medicine
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
OSL	Observed Safe Level
RDA	Recommended Dietary Allowance
RE	Retinol Equivalents
RfD	Reference Dose
SUL	Safe Upper Level
UF	Uncertainty Factor
UK	United Kingdom
UK EVM	United Kingdom Expert Group on Vitamins and Minerals
UL	Upper Intake Level or Tolerable Upper Intake Level
ULS	Upper Level for Supplements
U.S. or US	United States
WTO	World Trade Organization

## Units of Measure

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g	Gram (1 g = 1000 mg)
IU	International Units
kg	Kilogram
L	Liter
µg	Microgram (1000 µg = 1 mg)
mg	Milligram (1000 mg = 1 g)

# About the Council for Responsible Nutrition

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The Council for Responsible Nutrition (CRN) is a trade association representing manufacturers of dietary supplement ingredients and products. Recognized as a science-based organization, CRN and its member companies are committed to providing beneficial, safe, quality supplements to consumers. Member companies include manufacturers of brand name and private label finished products, manufacturers of bulk ingredients used to formulate dietary supplements, and companies that manufacture related products or ingredients or provide services ranging from public relations to laboratory analysis. Products of CRN member companies are marketed in the U.S. and worldwide.

CRN's member companies:

- are dedicated to enhancing the public health through improved nutrition, including the appropriate use of dietary supplements;
- are committed to reducing health care costs through improved nutrition, health promotion and disease prevention; and
- recognize their duty to provide the public with safe and beneficial dietary supplements, manufactured to high quality standards, and to ensure that consumers are provided with the accurate information they need to make informed choices.

CRN is governed by its President, Annette Dickinson, Ph.D., and by a Board of Directors made up of representatives of member companies.

Additional information about CRN, its staff, and membership eligibility is available on the website at [www.crnusa.org](http://www.crnusa.org).

## About the Author

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**John N. Hathcock, Ph.D.**, is Vice President, Scientific and International Affairs, for the Council for Responsible Nutrition (CRN). Dr. Hathcock is responsible for scientific review and regulatory interpretation, specializing in safety and international issues. He has more than 30 years of experience in the field, having served as a professor at Iowa State University and a senior scientist at the Food and Drug Administration before joining CRN in 1995. An expert on the safety evaluation of nutrients and other dietary ingredients, he has made numerous presentations on the safety of vitamins and minerals and other dietary ingredients to the U.S. Food and Nutrition Board and is the author of CRN's *Vitamin and Mineral Safety* (1997). In addition to publishing numerous peer-reviewed scientific articles, he regularly presents at major national and international conferences on food safety and regulatory issues, analyzes and develops CRN policy positions, and speaks on international regulations and issues, including those pertaining to the Codex Alimentarius and the European Commission. Dr. Hathcock holds B.S. and M.S. degrees from North Carolina State University and a Ph.D. in nutrition from Cornell University and is an elected member of professional societies in nutrition, toxicology, food science, and cancer research.

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