

# LIFE CHOICE®

## Why Does Life Choice® Use USP Pharmaceutical Grade?

### What Does USP Mean?

USP stands for United States Pharmacopeia, the world's only independent, not-for-profit, scientific and non-government pharmacopeia. This means when you choose a USP Dietary Supplement, you are getting a product that meets the highest quality standards, which is developed using the very best science available and guided by a commitment to improve public health and safety. For Life Choice®, the USP pharmaceutical grade is particularly referenced to Vitamins, Minerals and Amino Acids. Life Choice® uses pharmaceutical grade amino acids in all their product line formulations.

### Different Grades

Basically, there are three different grades of raw materials used in nutritional products. They are:

- **PHARMACEUTICAL GRADE** - meets pharmaceutical standards (97.5%+) of purity.
- **FOOD GRADE** - meets standards set for human consumption (lower quality manufacturing with added fillers).
- **FEED GRADE** - meets standards set for animal consumption (lowest quality with little or no regulation--most vitamin companies sell this quality). It's the old saying... "You get what you pay for; if it is too cheap it is for a reason: it bypasses product quality oversight."

The difference between them is one of manufacturing quality and purity. Technically, no substance is 100% pure; other substances may be present such as various minerals. The difference between the grades is essentially in the processing, which can result in harsh chemical extraction residues, lack of quality testing, and less absorption at the cellular level. When a product is labeled USP pharmaceutical grade, it is of the highest quality and purity standards available.

With respect to amino acids, there are several criteria by which pharmaceutical grade is judged. Amino acids must be in excess of 97.5% purity, have a uniform crystalline structure, and be white in color. The end results receive the highest rating: Pure Pharmaceutical Grade.

### United States Pharmacopeia (USP) History

The Federal Pure Food and Drug Act of 1906 was the first to recognize the USP as the "official compendia," thereby giving official status to drugs and other substances set forth in that book. Since that time, the USP has evolved as the official reference book which sets the standards for the quality and purity of therapeutic agents used in medical practice. Consequently, the USP standard is utilized by the pharmaceutical industry and the FDA, while the Physician's Desk Reference (PDR), which describes the uses of the therapeutic agents, is utilized by physicians as medicine.

The USP standard provides assurance to the consumer, as well as those involved in manufacturing and processing, that the quality and purity of the raw materials utilized in the formulations are of the highest pharmaceutical grade standards. Consequently, the USP standard is guaranteeing a reliable standard of excellence - a standard that Life Choice® nutraceuticals use and make available to its customers.

Nutraceutical products are also EP and JP Grade. That means European and Japanese Pharmaceutical grade; the world's standard is USP grade.

### The Result

When you use Life Choice® products, you can be assured that you are using the very best. The products contain and meet the highest standards of ingredient quality available anywhere in the world. Our vitamins, minerals and amino acids have been tested and analyzed in the raw material stage, and again after manufacturing in modern laboratories, using the latest testing equipment to ensure therapeutic results each and every time. Our Certificate of Analysis for each element used proves the purity-- the minimum being 99% pure, the maximum being 99.6% or higher, and the ingredients are never sourced from genetically modified organisms (GMO).