

# Serine Market Growth 2016 Global Analysis, Trends and Forecast to 2021 Market Report

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Serine is an amino acid with the formula  $\text{HO}_2\text{CCH}(\text{NH}_2)\text{CH}_2\text{OH}$ . It is one of the proteinogenic amino acids. It contains L-Serine, D- Serine and DL- Serine three types. Serine is a non-essential amino acid in humans (synthesized by the body), Serine is present and functionally important in many proteins. With an alcohol group, serine is needed for the metabolism of fats, fatty acids, and cell membranes; muscle growth; and a healthy immune system. It also plays a major role in pyrimidine, purine, creatine, and porphyrin biosynthetic pathways. Serine is also found at the active site of the serine protease enzyme class that includes trypsin and chymotrypsin.

## Scope of the Report:

This report focuses on the Serine in Global market, especially in North America, Europe and Asia-Pacific, Latin America, Middle and Africa. This report categorizes the market based on manufacturers, regions, type and application.

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Market Segment by Manufacturers, this report covers

Ajinomoto  
Evonik  
KYOWA  
Mitsui Chemicals  
Amino  
Wuxi Jinghai Amino Acid  
Puyer Biopharma  
Bafeng Pharmaceutical  
Jiahe Biotech  
Hua Yang Chemical



Market Segment by Regions, regional analysis covers  
North America (USA, Canada and Mexico)  
Europe (Germany, France, UK, Russia and Italy)  
Asia-Pacific (China, Japan, Korea, India and Southeast Asia)  
Latin America, Middle and Africa  
Market Segment by Type, covers  
L-Serine  
D-Serine  
DL-Serine

Market Segment by Applications, can be divided into  
Food Industry  
Cosmetics Industry  
Others

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