

THE LIQUID FERTILIZER PROCESS

This line performs hydrolyzation using natural enzymes of plant and animal origin. The raw materials enter the reactors mixed with water and enzymes that are capable of modifying the molecular structure of the proteins.



The FCEH® process



FULLY CONTROLLED ENZYMATIc HYDROLYSIS

GELAMIN® is a fluid gelatin for agriculture obtained using a low temperature (55 to 60° C) enzyme hydrolysis process performed in static reactors. The protein chains of collagen, a particularly protein rich material, are attacked by a pool of specific enzymes (stereo selective), and break according to pre-established criteria in a repeatable manner. Once the hydrolysis phase is complete, the product undergoes vacuum concentration to extract the excess water. **GELAMIN®** is therefore a stable, homogenous, standardized product that features predominantly L-Amino acids, which can be easily assimilated by plants as they are compatible with the physiology of various species.



Static reactor



GELAMIN® is the ideal raw material for formulating fertilizers for fertigation and foliar treatment. The nutrients that it contains are immediately available and capable of performing their action in the ground. **GELAMIN®** is defined by its exceptional biostimulant, complexing, and carrying properties.

RAW MATERIAL PREPARATION



THE RAW MATERIAL IS SIFTED, WASHED, STERILIZED AND SEPARATED BY SIZE.

WASHING - STERILIZATION - STABILIZATION

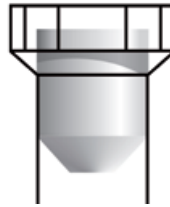


SIZE SELECTION

H₂O

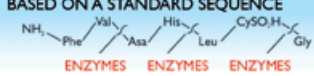
SPECIAL STEREO SELECTIVE ENZYMES

REACTOR



TSR (TOP STIRRED REACTOR) TECHNOLOGY

BREAKS THE BONDS BETWEEN AMINO ACIDS
BASED ON A STANDARD SEQUENCE



LOW TEMPERATURE PROCESS 60°C



FILTRATION FOR THE ELIMINATION OF SUSPENDED SOLIDS

FCEH PROCESS

FOLIAR
SPECIAL STEREO SELECTIVE ENZYMES

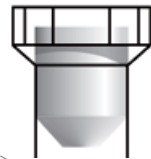


LOW TEMPERATURE PROCESS 55°C



CONCENTRATOR

MICRO ELEMENTS
Fe Mg Ca B...



LOW TEMPERATURE PROCESS 60°C



REACTOR FOR COMPLEXING WITH
MACRO (P, K) AND
MICRO ELEMENTS

FILTER



FERTIGATION



CONCENTRATOR



FILTER

