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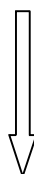
Web : www.whuhoyo.com

FLOW CHART

PRODUCT NAME: L-Cystine (Non Animal Source / vegetarian)

CAS No.: 56-89-3

D,L-2-amino- Δ^2 -thiazoline-4-carboxylic acid (Petrochemical)



Dissolved in aqueous buffer near neutral pH

Add enzymes from fermented bacteria

(加入假单胞菌, 这种细菌自身含有酶, 是自

身的特性, 含有异构酶和水溶酶

L-CYSTEINE (Solution)



Oxidation by air

Precipitation

Filtration

L-CYSTEINE (Crude)



Dissolved in diluted HCl

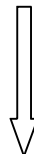
Decolorized by active carbon

Filtration

Add ammonia to neutralize

Precipitation & centrifugation

L-CYSTEINE (wet)



Drying & Packing

Passing inspection

L-CYSTEINE (Non Animal Source / vegetarian)

Main raw material list:

- 1) D,L-2-amino- Δ^2 -thiazoline-4-carboxylic acid
- 2) Hydrochloric Acid
- 3) Active carbon
- 4) Ammonia
- 5) Pure water