

## D-Penicillamine PRODUCT DATA SHEET

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**Product Name:** D-Penicillamine

Product Number: P107

**CAS Number:** 52-67-5

Molecular Formula:  $C_5H_{11}NO_2S$ 

Molecular Weight: 149.21

**Description:** D-Penicillamine is a copper chelating agent that also functions as a disease-

modifying, anti-rheumatic immunosuppressant, and a treatment for cystinuria.

TOKU-E offers both D-penicillamine (P107) and <u>L-penicillamine (P112)</u>. While

they are enantiomers of each other with equal copper chelating ability, L-

penicillamine has a high toxicity in humans.

**Mechanism of Action:** D-Penicillamine treats cystinuria by disulfide exchaninge between d-

penacillamine and cystine, the product of penicillamine-cysteine disulfide

being much more soluble than cystine.

**References:** Purkiss, P., & Watts, R. W. (1977). Low Dose D-penicllamine in

Cystinuria. *Proceedings of the Royal Society of Medicine*, 70(3), 27-30. Retrieved from http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1543600/

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