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Chlorhexidine Gluconate

National Cancer Institute

Source

National Cancer Institute. *Chlorhexidine Gluconate*. NCI Thesaurus. Code C47974.

The gluconate salt form of chlorhexidine, a biguanide compound used as an antiseptic agent with topical antibacterial activity. Chlorhexidine gluconate is positively charged and reacts with the negatively charged microbial cell surface, thereby destroying the integrity of the cell membrane. Subsequently, chlorhexidine gluconate penetrates into the cell and causes leakage of intracellular components leading to cell death. Since gram positive bacteria are more negatively charged, they are more sensitive to this agent.