Octenidine Dihydrochloride

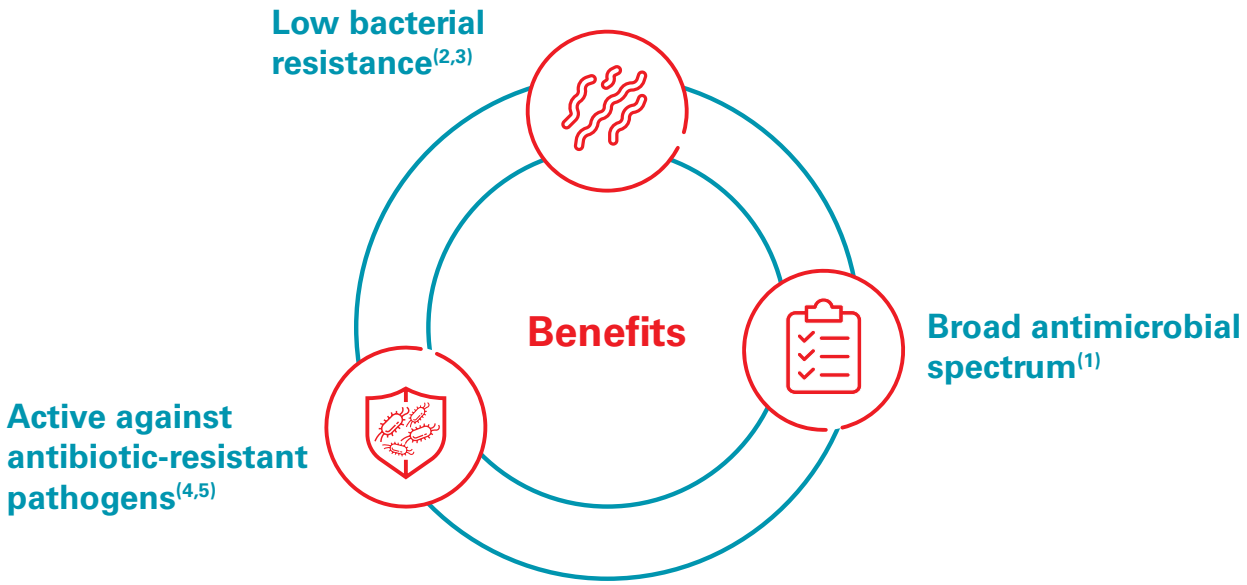
HELM latest antiseptic API

How Octenidine Works[1]

Octenidine is a cationic, surface-active substance, able to bind to microbial cell envelopes, disrupting cell membrane and microcellular metabolism, ultimately leading to cell death.
Octenidine has a broad antimicrobial spectrum against Gram-positive and Gram-negative bacteria and fungi, including *S. epidermidis, S. aureus, P. mirabilis, S. pyogenes, K. pneumoniae, E. coli, P. aeruginosa and C. albicans.*

Project Timelines

Tech Pack & Samples	Validation batches:	EU DMF
Available	Q2 2022	Q4 2022

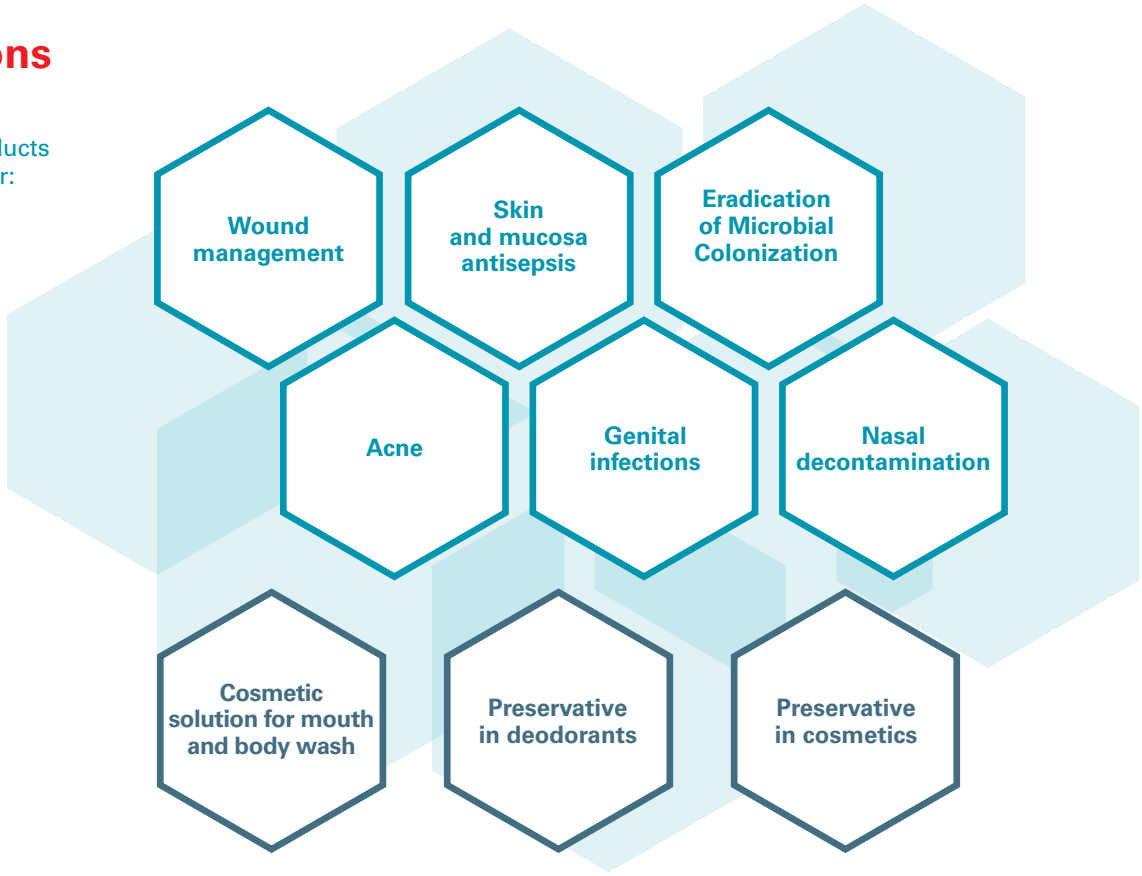


Octenidine vs Chlorhexidine

In general, octenidine has a higher antiseptic activity than chlorhexidine. Furthermore, the concentration of octenidine necessary to achieve complete inactivation of bacteria and yeasts is much lower (approx. 10-fold) than for chlorhexidine.[6]

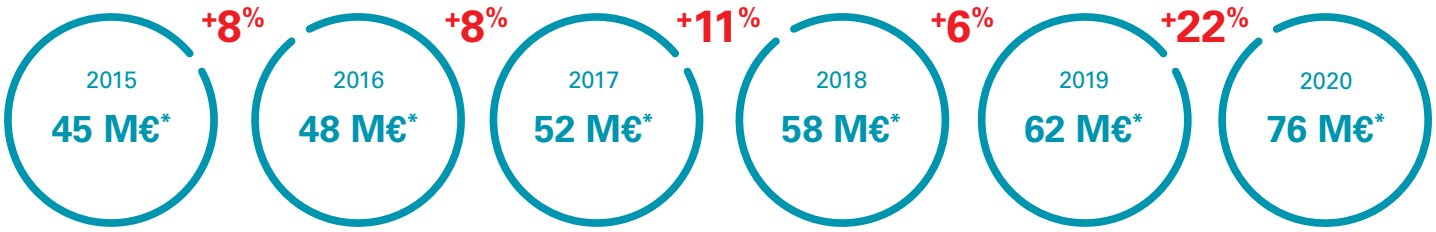
Applications

PHARMA
- Medicinal products applications for:



COSMETIC

FDF Worldwide market size and growth



GROWTH 2015-2020 **69%**

*IQVIA

Developed together with Lebsa

EU DMF available in Q4 2022

Want to know more about Octenidine? CONTACT

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(1): Hubner N.-O., et al. Octenidine dihydrochloride: A new topical antimicrobial for local treatment of skin, mucous membranes and wounds. Skin Pharmacol Physiol. 2010;23(5):244-58. doi: 10.1159/000314699 **(2):** Wand ME., et al. SmvA is an important efflux pump for cationic biocides in Klebsiella pneumoniae and other Enterobacteriaceae. Sci Rep. 2019 Feb 4;9(1):1344. **(3):** Chan MKL., et al. Development of a real-time assay to determine the frequency of qacgenes in methicillin resistant Staphylococcus aureus. J Microbiol Methods. 2018 Oct;153:133-138. **(4):** Alvarez-Marin R., et al. Antimicrobial activity of octenidine against multidrug-resistant Gram-negative pathogens. Eur J Clin Microbiol Infect Dis. 2017 Dec;36(12):2379-2383. **(5):** Conceição T., et al. Efficacy of octenidine against antibiotic-resistant Staphylococcus aureus epidemic clones. J Antimicrob Chemother. 2016 Oct;71(10):2991-4. **(6):** Koburger T., et al. Standardized comparison of antiseptic efficacy of triclosan, PVP-iodine, octenidine dihydrochloride, polyhexanide and chlorhexidine digluconate; J Antimicrob Chemother. 2010 Aug;65(8):1712-9. doi: 10.1093/jac/dkq212.