

**breakproof**

**Powerful, mobile cold plasma
therapy for orthopaedics and
wound healing**



Straight steel core electrode for the EquCellpen®

Benefits for the patient

- Disinfects quickly and efficiently with deep action
- Accelerates healing
- Calms inflammation
- Stimulates even poorly healing tissue such as nerves and tendons
- No side effects
- Painless and therefore well tolerated



2-year
guarantee



Made in
Switzerland

EquCell® is a Business Unit of

ActivCell
Group

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Cold plasma therapy: effective for all infected skin diseases and wounds



Antiseptic effect of cold plasma therapy:

- Formation of reactive species in tissue with direct cold plasma source¹
- Effective and fast oxidative disinfection by the reactive species¹
- «Ion etching» with pore formation up to denaturation of the cell membrane²
- Non-specific mechanism of action is unaffected by multidrug resistance³
- Biofilms are degraded⁴
- Deep action at least into hair follicles⁵

The EquCellpen® was tested at the Leibniz-Institut für Plasma Science and Technology e.V. (INP) in Germany according DIN Spec 91315:

- Defines the requirements for medical plasma sources
- Physical performance testing (patient leakage current, temperature, radiation, ozone)
- Testing of chemical specifications (pH value, hydrogen peroxide, nitrates/nitrites)
- Biological effects (antisepsis, cytotoxicity)

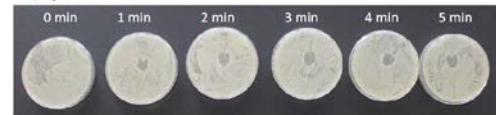
Inoculated untreated (0 min) and plasma-treated agar plates (for one example); from left to right – 0 min (untreated control) to 5 min plasma treatment time with the plasma source EquCellpen for the respective microorganism (*Staphylococcus aureus* DSM 799/ATCC 6538, *Staphylococcus epidermidis* DSM 20044/ATCC 14990, *Escherichia coli* K-12 DSM 11250/NCTC 10538, *Pseudomonas aeruginosa* DSM 50071/ATCC 10145, *Candida albicans* DSM 1386/ATCC 10321).

Antiseptic spectrum of cold plasma therapy:

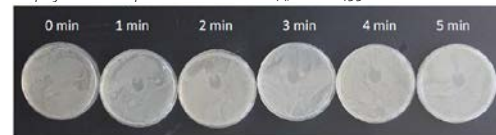
- Bacteria⁶
- Viruses⁷
- Prions⁸
- Parasites⁹
- Fungi¹⁰

In vitro testing of the antiseptic effect of the EquCellpen® (DIN Spec 91315):

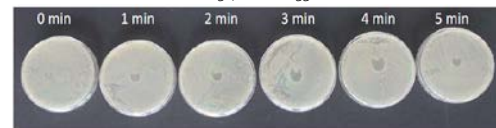
Staphylococcus aureus DSM 799/ATCC 6538



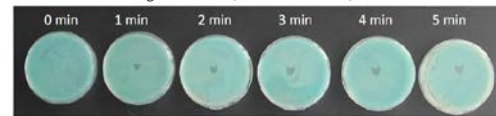
Staphylococcus epidermidis DSM 20044/ATCC 14990



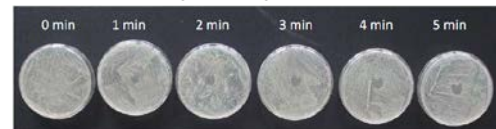
Escherichia coli K-12 DSM 11250/NCTC 10538



Pseudomonas aeruginosa DSM 50071/ATCC 10145



Candida albicans DSM 1386/ATCC 10321



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