



Services in Oral Health Care



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- Oral care products are mostly used to prevent the oral cavity from caries, gingivitis, and periodontitis.
- Gingivitis is caused by gum accumulating bacteria and ends up in red, swollen, and bleeding inflammation of the gum.
- The daily use of selectively enriched oral care products like toothpaste or mouth rinses is the most effective way to prevent gingivitis.
- VivaCell offers highly specialised and reliable models for testing oral care products (tooth paste, mouth wash etc.) for their potential to prevent or treat gingivitis.
- The models are used for testing marketed products as well as for the identification of new active principles and development of new products.
- VivaCell has a well established cooperation in this field with leading oral health care companies.



VivaCell offers the full service to assess prophylactic and acute therapeutic effects of oral care products

All cellular models can be used for testing single chemical identities or diverse galenic formulations.

We offer the use of special filter applications to assess the effects of final formulations – simulating a real live application with prophylactic short time or acute treatment protocols.

VivaCell provides various models and methods

- Human primary cultures (monocytes, gingival and periodontal ligament fibroblasts, and keratinocytes to determine all relevant parameters (e.g. inflammation) linked to gingivitis and periodontitis
- Capsaicin and menthol receptors (TPRV-1 and CMR1) heterologous transfected cells (artificial tongue)
- Cell proliferation and cell cycle analysis
- Mitochondrial function and oxidative stress Phagocytosis and Autophagy

- Lectin binding assay: Studying the effect of ingredients on lectin binding to avoid bacterial adherence.
- Gingival and buccal epithelial tissues
- Gingival fibroblast/ human keratinocytes co-cultures/3D culture (all parameters)
- Determination of transepithelial electrical resistance (TER)
- Determination of inflammatory parameters in gingival samples from clinical studies

VivaCell Biotechnology GmbH
Ferdinand-Porsche-Str. 5
D - 79211 Denzlingen
Germany

Phone +49 7666 902879
Mobile +49 179 2115187
fielich@vivacell.de
www.vivacell.de

VIVACELL 
Biotechnology GmbH