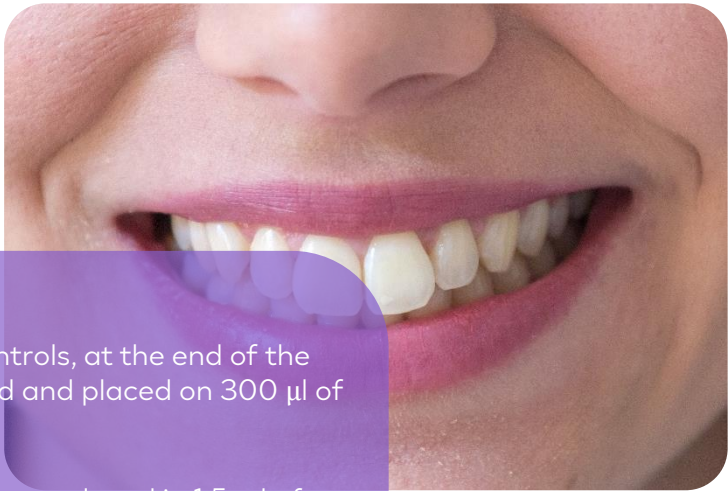


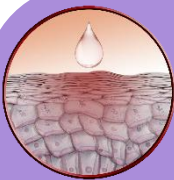
# ORAL IRRITATION

## Dental Material Testing

Models  
SkinEthic™ HOE, SkinEthic™ HGE



### DESCRIPTION



Evaluation of cell viability



For each of the tested products or controls, at the end of the incubation period, two cultures are rinsed and placed on 300 µl of 0.5 mg/ml MTT



After 3 hours of incubation at 37°C, 5% CO<sub>2</sub>, cultures are placed in 1.5 ml of isopropanol



Extraction is performed at room temperature, for a minimum of 1.5 hour at room temperature



Optical density is measured on 200 µl of extracts at 570 nm (reference filter: 690 nm)



Results are expressed as percentage of viability compared to negative control (mean +/- SD of duplicate cultures).

% of viability = [OD(570 nm - 690 nm) test product / OD(570 nm - 690 nm) negative control] x 100.



#### Histo-pathologic interpretation:

Negative control cultures: The epithelial tissues must have a constant thickness (corresponding to the internal control sections), devoid of terminally differentiated cells, and a regular and compact shape. Cells are attached to the others via multiple desmosomes.



**Positive control cultures:** Most of the upper cell-layers of the epithelial tissues must be disintegrated, and the remaining basal cells loosely attached to the polycarbonate substratum

### TESTED PRODUCTS

- Adhesive gel
- 15 µl and 30 µl
- Exposure time: 1 hour, 3 hours, 24 hours

### RESULTS

Tested Product	Percentage of viability compared to negative control (mean +/- SD of duplicate cultures)		
	1 hour	3 hours	24 hours
Negative control (Non treated)	100% +/- 0.35	100% +/- 7.76	100%
15 µl	104.86% +/- 4.96	97.90% +/- 3.27	97.32% +/- 22.91
30 µl	103.21% +/- 2.34	102.74% +/- 2.51	104.95% +/- 7.15