

BIOCOMPATIBILITY

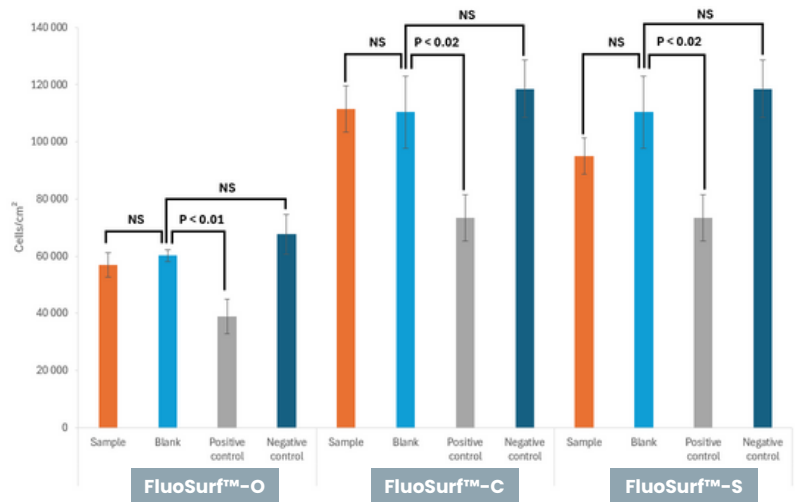
FluoSurf™-O, FluoSurf™-C & FluoSurf™-S

FluoSurf™-O, FluoSurf™-C & FluoSurf™-S are biocompatible and are specially designed to stabilize droplets containing biological entities. This document presents the results of cytotoxicity assays carried out on formulations of FluoSurf™-O, FluoSurf™-C and FluoSurf™-S diluted in HFE 7500 fluorinated oil.

EXPERIMENTAL CONDITIONS

Samples	4w/w% FluoSurf™-O,C,S diluted in HFE-7500 <i>(test item: 5 µL of the sample spread on a polystyrene disc)</i>
Blank	Sterile polystyrene disc (γ rays)
Positive control	Latex disc
Negative control	Complete culture medium
Cells	Balb/c 3T3 clones A31
Exposition	Direct contact for 24 h
Cell counting method	Trypan blue exclusion test

RESULTS



The analysis is adapted from SOP INT483 and NF EN ISO 10993-5. The analysis is not carried out using droplet-based microfluidics.

Results are expressed as number of cells per cm² (cell density) and compared to blank to obtain a viability percentage.

		% viability	P
FluoSurf™-O	Sample	94	NS
	Positive control	65	P < 0.01
	Negative control	112	NS
FluoSurf™-C	Sample	101	NS
	Positive control	66	P < 0.02
	Negative control	107	NS
FluoSurf™-S	Sample	86	NS
	Positive control	66	P < 0.02
	Negative control	107	NS

A sample is considered cytotoxic if the inhibition of the cell growth is superior to 30 %. Statistical analysis is performed using the Student's t test. P values less than 0.05 are considered statistically significant.

Negative controls do not show any inhibition of cell growth. Positive controls induce inhibition of cell growth. The results obtained for positive and negative controls validate the results obtained for the test samples.

Comparison of the results obtained for the test samples and blanks does not show any inhibition of cell growth statistically superior to 30 %.

FluoSurf™-O, FluoSurf™-C and FluoSurf™-S diluted in HFE-7500 fluorinated oil are not cytotoxic under the experimental conditions of this analysis.