

SR Triplex® Cold

Certificate of biocompatibility

Test material: SR Triplex® Cold denture base material

Manufacturer Ivoclar Vivadent AG, Bendererstrasse 2, FL-9494 Schaan, Liechtenstein

Classification **SR Triplex Cold** denture base material complies with ISO 20795-1:2013 and, given its chemical composition and polymerization temperature, belongs to the auto-curing polymers (Type 2, Class 2).

Water solubility Testing according to ISO 20795-1:2013
Limit for auto-curing polymers $\mu\text{g}/\text{mm}^3 \leq 8.0$
Typical value SR Triplex Cold $\mu\text{g}/\text{mm}^3 \leq 2.1$

Residual monomer content
Limit for self-curing polymers $\leq 4.5\%$
Typical value for SR Triplex Cold $\leq 4.1 \text{ wt}\%$

Plaque adhesion Internal tests with **SR Triplex Cold** show good colour stability and low plaque adhesion.
Reference: Bench test "Investigation of material resistance to discoloration/plaque, solvents, and denture cleaning agents"
S. Teichmann, January 23, 2004
Result: The tested material **SR Triplex Cold** successfully completed the tests regarding resistance to discolouration/plaque, solvents, and denture cleaning agents.

Cytotoxicity Cytotoxicity tests were conducted on cells of the mouse cell line L929 using extracts of **SR Triplex Cold** and comparable materials. The extracts showed no cytotoxic effects.

Genotoxicity The AMES reversion mutation test was conducted on bacterial cells using extracts of **SR Triplex Cold** and comparable materials. The extracts exhibited no mutagenic effects.

Schaan, September 2025

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The Ivoclar logo consists of a small green dot followed by the word "ivoclar" in a bold, blue, sans-serif font.