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Abstract

[MAGALHAES, Bianca Silva](#) et al. Dissolving efficacy of some organic solvents on gutta-percha. *Braz. oral res.* [online]. 2007, vol.21, n.4, pp. 303-307. ISSN 1806-8324. doi: 10.1590/S1806-83242007000400004.

The aim of this study was to evaluate the solubility of gutta-percha in four organic solvents used in endodontics. The solubility of gutta-percha (Dentsply) was assessed in xylol, orange oil, eucalyptol, chloroform and distilled water. A hundred and fifty samples of gutta-percha were prepared using a standardized stainless steel mould and divided into five groups for immersion in the different solvents tested and in distilled water (control group) for 2, 5 and 10 minutes. The means of gutta-percha dissolution in the solvents were obtained by the difference between the pre-immersion original weight and the post-immersion weight in a digital analytical scale (Gehaka - AG2000). Data were statistically analyzed by Analysis of Variance (ANOVA) and multiple comparisons with Scheffes test ($p < 0.05$). The best solvency capacity was obtained with xylol. Chloroform, orange oil and eucalyptol presented similar results, and distilled water did not promote alterations in the gutta-percha.

Keywords : Endodontics; Retreatment; Solubility; Gutta-percha; Solvents.

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