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Application of bis-eugenol to a zinc oxide eugenol cement

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To assess the usefulness of dimerized eugenol(bis-eugenol) in dentistry, the physical properties of zinc oxide eugenol cement(ZOE) with bis-eugenol and the cytotoxicity of bis-eugenol were studied. Addition of bis-eugenol to ZOE did not decrease the physical properties when employed at the ratio of 9:1 or 6:1. Bis-eugenol was less toxic than eugenol in cell culture tests. The result of this assay demonstrated that bis-eugenol is useful in ZOE.