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Effect of calcium fluoride on the activity of dentin matrix-bound enzymes

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Highlights

In this study, calcium fluoride (CaF₂) was ineffective in the prevention of enzymatic degradation of demineralized dentin matrix. Fluoride ions most likely prefer binding to freely available Ca²⁺ ions, rather than interacting with MMPs and CCs. This effect possibly determines the inhibitory efficacy of fluoride compounds on the catalytic activity of dentin matrix-bound MMPs and CCs.

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