

The Chemical Composition of *Microbiota decussata*

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Biflavones, Essential Oils, Antifungal Activity

From the leaves of *Microbiota decussata* (Cupressaceae) biflavones: cupressuflavone, amentoflavone and 7-O-methylamentoflavone were isolated and identified. The amount of cupressuflavone in *Microbiota decussata* and *Cupressocyparis leylandii* (Leyland cypress) (Cupressaceae) was determined by HPLC (1.82% and 0.83%, respectively). The chemical composition of essential oils from bark and leaves of *Microbiota decussata* was established by GC-MS (GC-FID) analysis. As a major component thujopsene (39.2% and 45.9%, respectively) was identified. Wiridiflorol (3.0%) and τ -muurolol (0.3%) were present only in leaves but globulol (1.5%) exclusively in bark. The content of essential oils in *M. decussata* was high – 5.4% in bark and 12.6% in leaves. The essential oils from *M. decussata* and *C. leylandii* were bioassayed towards different fungi of the genus *Fusarium*. Leyland cypress essential oil at 2% concentration fully inhibited the growth of all fungi.