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Embelin as an alternative reference standard for Delta-9-Tetrahydrocannabinol

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Delta-9-Tetrahydrocannabinol (Δ 9-THC), has shown neuroprotective effects on animal models, but cannot be used as a drug for treatment as it is controversial to use an addiction drug for treatment. Further, there have been toxic and addictive effects on humans. Embelin (isolated from *Embelia ribes*) falls under herbal medicine category. In this study it has been computationally shown that the pharmacokinetic and drug-likeness effects of Embelin are similar to Δ 9-THC, and thus, it can be used as an alternative reference standard as supported by docking studies.

Keywords: Reference standard, Delta-9-Tetrahydrocannabinol, Embelin, Docking studies, Molecular mechanics