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A summarised review on Extraction, isolation of methyl 2,5 Dihydroxy cinnamate from *Grevillea robusta*(silver oak)

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ABSTRACT:

Grevillea robusta mainly contain various pharmacological activities i.e., Anti-inflammatory, Anti-cancer, showing strongly inhibition against L-DOPA. So, this review targeted inhibition of L-DOPA oxidation which is shown by Methyl 2,5 Hydroxycinnamate. The leaves of silver oak have been extracted with the help of cold maceration and isolated with the help of silica gel column chromatography. From which, three compounds: Graviquinone, cis-3-hydroxy-5pentadecylcyclohexanone, and methyl 5-ethoxy-2-hydroxycinnamate, and thirty-eight known compounds were isolated and identified from the leaves of Grevillea robusta. Graviquinone showed the strongest cytotoxicity against various diseases related to carcinogenic. Methyl 2,5- Di hydroxycinnamate and bis-norstriatol demonstrated strong inhibition of L-DOPA oxidation by mushroom tyrosinase compared with kojic acid. In, last the identification can been done with the help of retro technique TLC and for more identification IR can been performed.

Key Words: Levo-dopa, Methyl 2,5 dihydroxy cinnamate, Graviquinone, cis-3-hydroxy-5pentadecylcyclohexanone, Kojic acid, Tyrosinase.

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