L DOPA



Presentation

Primary Information Services

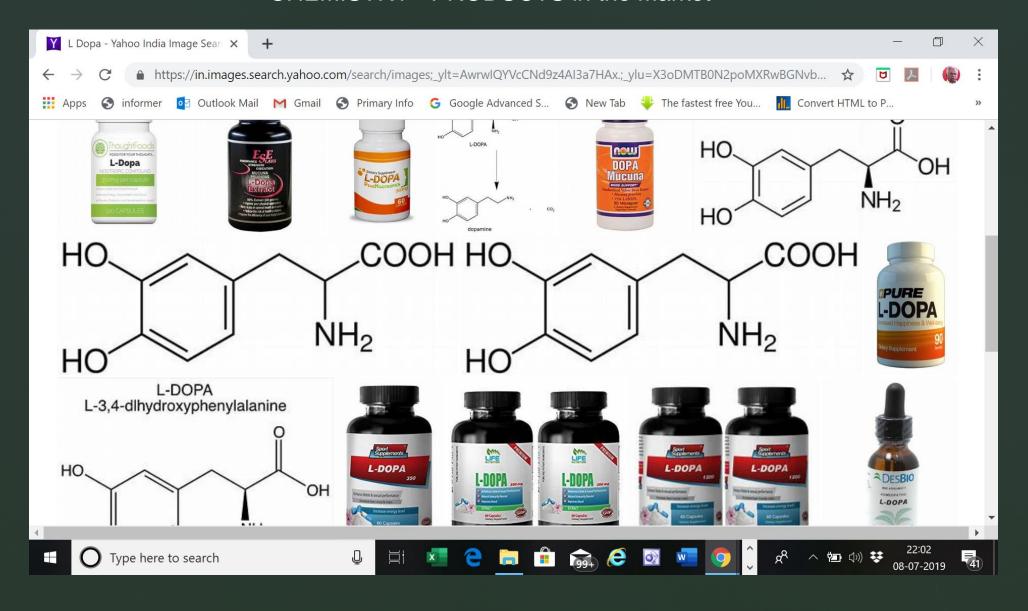
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What?

L-DOPA and is a leading drug used in the treatment of Parkinson's disease Besides treatment of Parkinson's disease, L-DOPA is reported to be effective in the management of DOPA-responsive dystonia

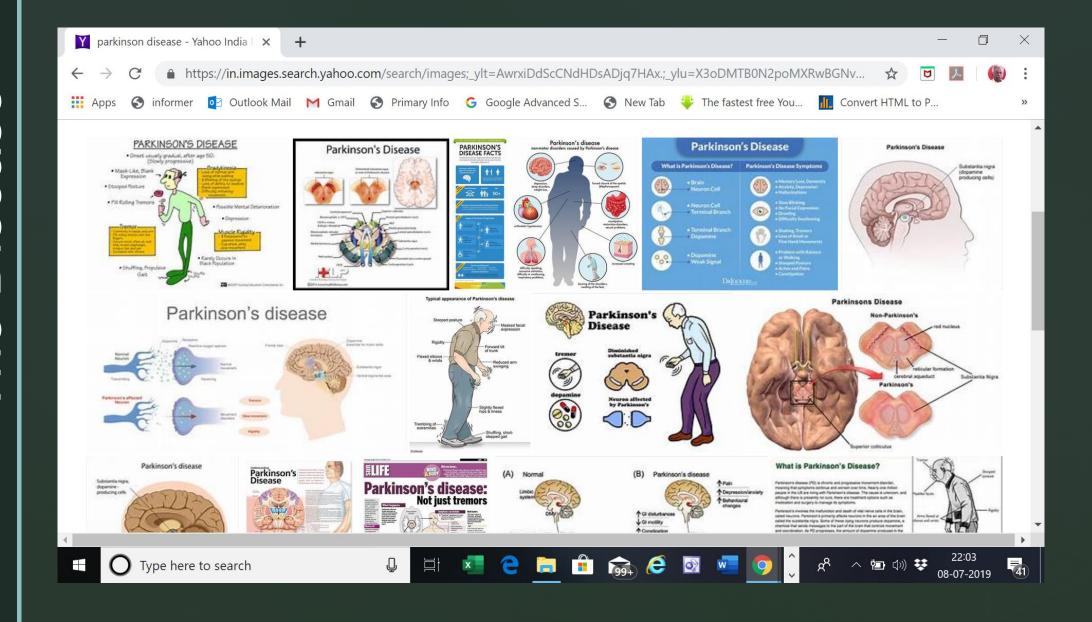
CHEMISTRY - PRODUCTS in the Market



Parkinson's disease

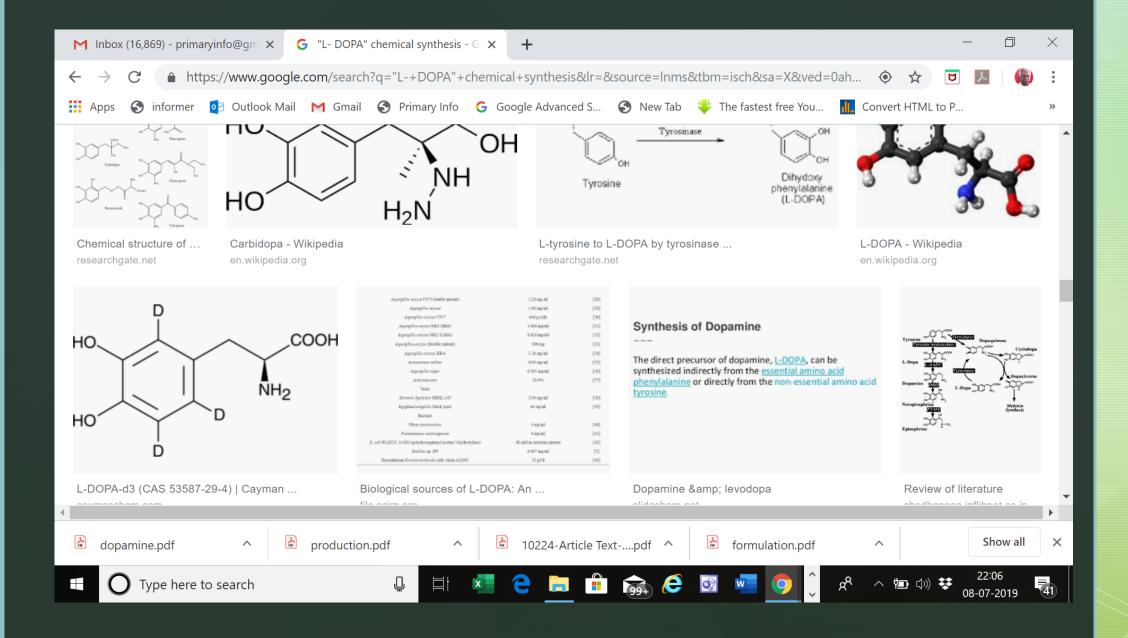
Parkinson's disease is a clinical condition where the brain loses control over movement of motor muscles often leading to body tremors and uncoordinated movement of body limbs

In the treatment of Parkinson's disease, L-DOPA is administered to the patient intravenously or orally and transferred through the blood circulatory system to the dopamine deficient cells in the brain where it is converted by DOPA decarboxylase to dopamine and used for neurotransmission across synapses with motor neurons



Chemical Synthesis

Commercial L-DOPA is largely produced by chemical synthesis
Total elimination of minor impurities from synthetic products is almost unattainable and chemically synthesized L-DOPA is reported not to exceed 98% purity and is contaminated with D-DOPA which could not be removed by downstream processing



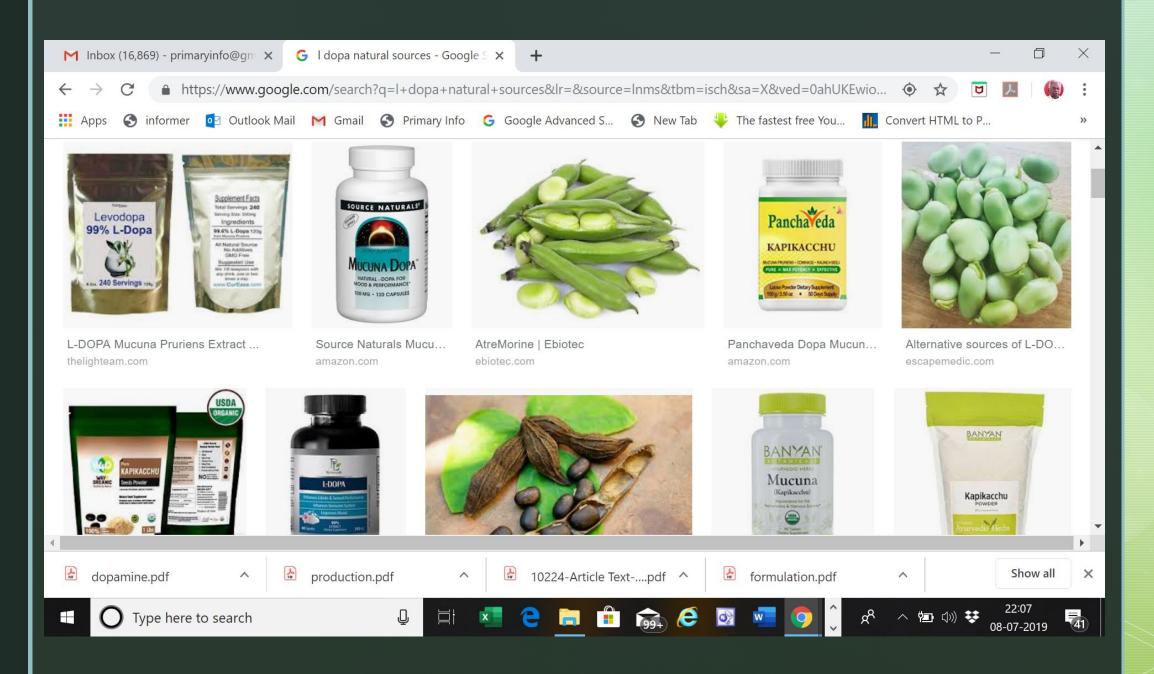
Natural Sources

Among the natural sources of L-DOPA, Mucuna pruriens produce fairly high quantities of L-DOPA (5.4% DW) and 6.8% weight weight

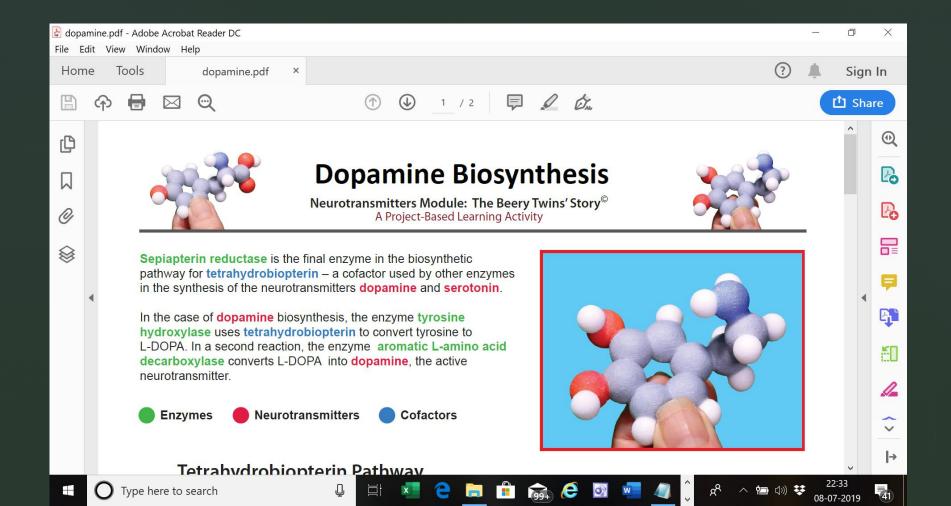
The common English names of Mucuna are cowitch, cowage and velvet bean.

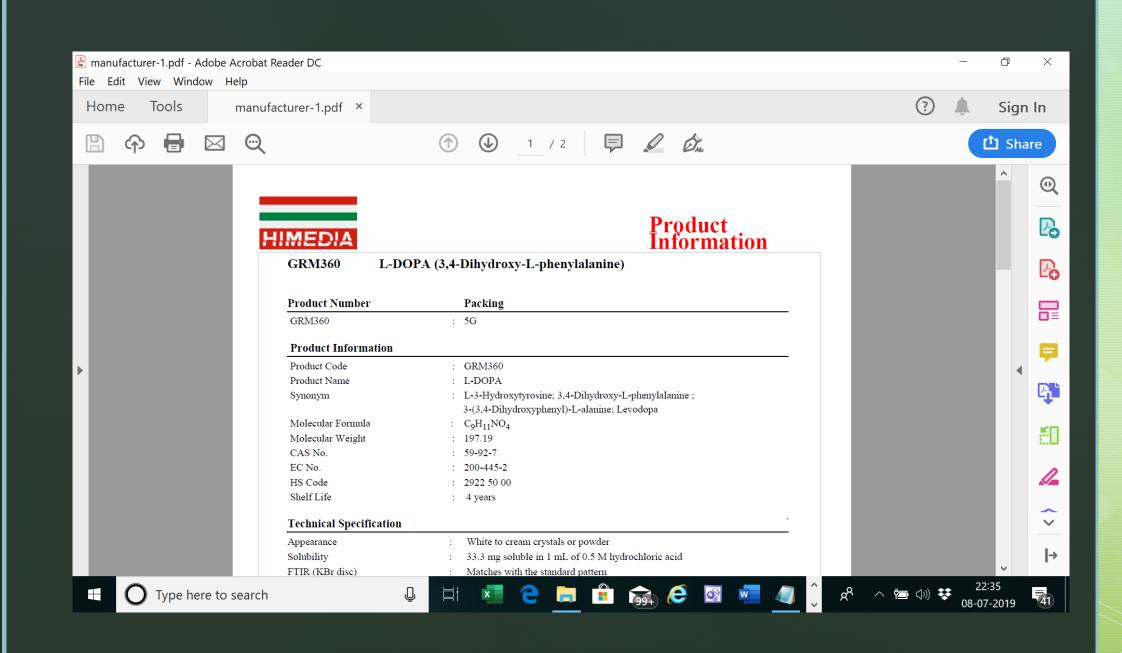
The major chemical components of economic interest produced by M. pruriens include proteins-27%, L-DOPA, hallucinogenic tryptamines, phenols and tannins

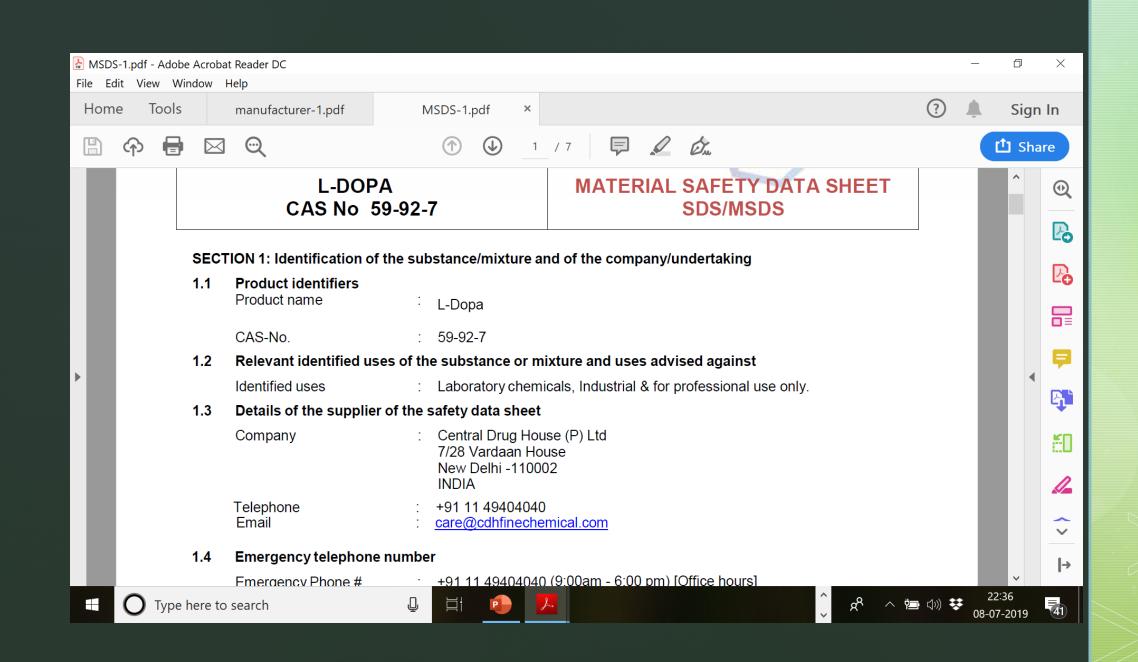
Molecular pharming has consistently shown great potential to emerge as source for commercial production pure natural products such as L-DOPA and therapeutically proteins by using plant and bacterial cells as bio-factories



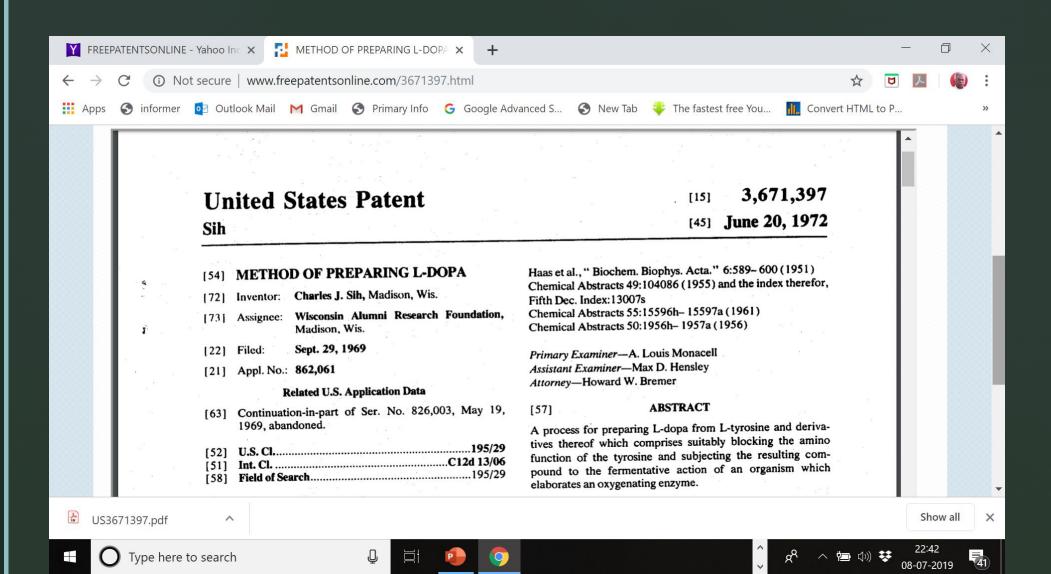
L Dopa Synthesis



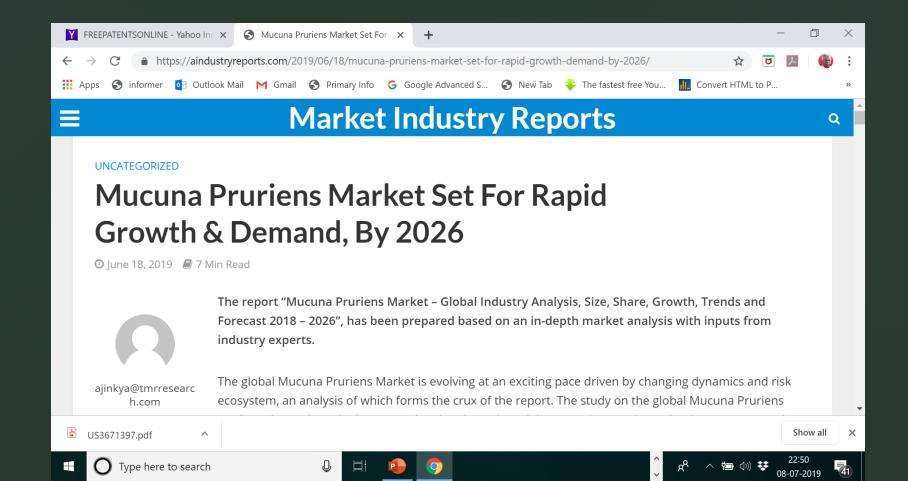




Patent Information



Market Scenario



QUESTIONS?

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