

毛绍春 云南省玉溪市红塔区研和镇云南玉溪农业职业技术学院 653100
李竹英 云南玉溪农业职业技术学院 653100
李聪 云南大学化学材料学院应化系 650091

摘要：以丙酮、乙酸乙酯、85%乙醇作溶剂，用超声法提取诃子中的抗氧化成分。用ESR法检测香烟烟气自由基含量的变化。结果显示，85%乙醇作溶剂的得率最高（16.4%）。在香烟滤嘴和烟丝中分别添加50 μ L 0.2%诃子的3种提取物时，85%乙醇提取物对香烟烟气自由基的清除率最高（34.1%）。

关键词：诃子, 提取物, 香烟, 自由基, ESR

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[Studies on reducing free radical in cigarette smoke with terminalia chebula Rotz extracts](#)

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Abstract: The antioxidant of Terminalia chebula Rotz are distilled by the ultrasonic extraction method with acetone, ethyl acetate and 85% ethanol. The content of free radical in cigarette smoke is tested by electron-spin resonance(ESR) method. The results showed that the extract rate of 85% ethanol as solvent is the highest(16.4%).when 50 μ L 0.2% three extracts of Terminalia chebula Rotz were respectively added in filters and caporal of cigarette, the scavenging percentage of 85% alcohol extracts from Terminalia chebula Rotz is the highest (34.1%).

Key words: Terminalia chebula Rotz, Extraction, Cigarette, Free radical, ESR

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