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(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-BASED METHOD FOR QUALITY EVALUATION OF AYUSH HERBAL RAW MATERIALS

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(57) Abstract :

The present invention relates to an artificial intelligence-based method for comprehensive quality evaluation of AYUSH herbal raw materials. The method integrates organoleptic, macroscopic, microscopic, physicochemical, and spectroscopic data into a unified analytical framework using advanced machine learning algorithms. Authenticated reference samples train classification models to distinguish genuine, substandard, and adulterated materials. The trained system analyzes unknown samples to generate quality classifications with confidence scores and detailed assessment reports. The method demonstrates improved accuracy, speed, and reproducibility compared to conventional manual and rule-based approaches. It addresses challenges of natural variability, adulteration detection, and inter-observer inconsistency in traditional quality control. The system enables early fraud detection, enhances supply chain integrity, and supports high-throughput screening for large-scale manufacturing. This AI-based approach modernizes quality assurance in the AYUSH sector, ensuring consistency, safety, efficacy, regulatory compliance, and global standardization of herbal medicines.

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