

## **P5674** COMPOSITIONAL ANALYSIS OF AYURVEDIC MEDICINE USING LIBS ALONG WITH PAS TECHNIQUES



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An ayurvedic medicine has been taken to know its complete compositional (elements and molecules) profile. This medicine enriched with Salacia oblanga, a herbs, that exhibits antidiabetic properties.

Two analytical techniques have been used

Photoacoustic Spectroscopy (PAS)

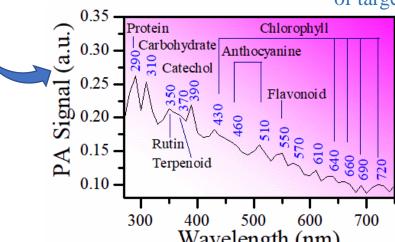
PAS is based on the detection of photon-induced acoustic (PA) signals generated via radiative transition processes.

Laser Induced Breakdown Spectroscopy (LIBS)

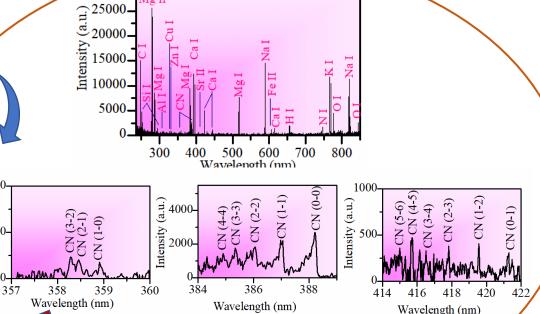
Based on the analysis of spectral lines of elements emitted from laser-induced plasma created on the surface of target sample

due to photo fragments of

present in the medicine



Wavelength (nm)
PAS spectrum of the Ayurvedic Medicine with in the wavelength range from 270 nm - 750 nm



LIBS spectrum of the Ayurvedic Medicine

The feasibility of LIBS and PAS have been demonstrated as a rapid analytical tool for the complete compositional confirmation of Ayurvedic medicine and boost the trust of consumer towards the consumption of traditional medicine