



# Standardized product from *Picrorhiza kurroa* Royle ex Benth. (Kutki)

*Picrorhiza kurroa* (*Scrophulariaceae*) is an Ayurvedic plant commonly known as Kutki, grows wild in temperate and sub-alpine (>3000 m) Himalayan region. Plant is known to treat jaundice, fatty liver, diabetes, respiratory, renal and cardiovascular disorders. Roots, rhizomes and leaves are the major source of active ingredients. Number of Ayurvedic and herbal formulations such as *Livplus* (BACFO Pharma), *Livomyn* (Charka Pharma), *Livocare* (Dindoyal Aushadhi Pvt. Ltd.), *Arogyavardhani Gutika* (Zandu Pharma), *Livotrit Forte Tablet* (Zandu Pharma), *Picroliv* (CDRI-Lacknow), *Livokin* (Herbo-med), *Tefroliv* (TTK Pharma Pvt. Ltd.), *Praveklive* (Pravek Kalp Herbal Products Pvt. Ltd.), *Vimliv* (OM, Pharma Pvt. Ltd.) containing Kutki as main ingredient, are available in the market. CSIR-IHBT has developed a simplified process for the preparation and purification of kutkin (the enriched fraction of active ingredients). In addition, the Institute has lab scale process for the preparation of

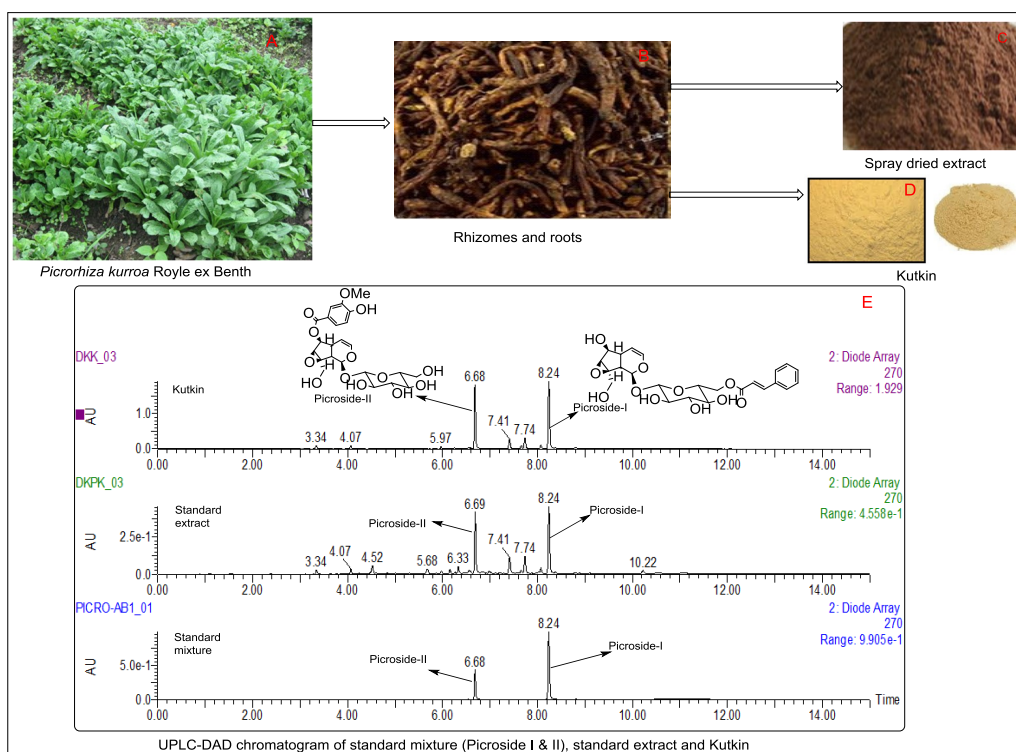
standardized extracts of *Picrorhiza kurroa*. Micro-propagation for mass production and agro technologies for cultivation and high yield varieties are being worked out.

**Standardized extract:** The active ingredients present in the plant are iridoid glycosides, cucurbitacins and phenolic compounds. The standardized extract contained Picroside-I & II (10-14%).

**Kutkin:** Enriched fraction containing 50-65% of two major iridoids (Picroside-I & II).

## Achievements

- A simplified process developed for the preparation and purification of kutkin (Indian Patent No. 247574).
- Lab scale process developed for the preparation of standardized extract.
- Standardized ingredient for the preparation of Ayurvedic and herbal products.



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