

On-Chain Traceability for Contract Pharming

<https://www.vitigrp.com/insights/on-chain-traceability-contract-pharming>

KEY TAKEAWAYS

- Contract farming gives farmers a guaranteed buyer and shared quality standards.
- Recording cultivation, harvest, testing, and payment on a blockchain creates a tamper-evident chain of custody.
- Smart contracts can automate transparent, on-time profit-sharing payments to growers.
- On-chain provenance lets buyers verify exactly where and how a batch was produced.

AT A GLANCE

Cultivation	Plot, practices (e.g. GAP), and inputs
Harvest	Date, lot identifier, and quantity
Testing	Marker-compound assay results tied to the lot
Custody & payment	Each transfer + grower settlement recorded on-chain

REFERENCES & CITATIONS

1. FAO. Guidelines on Good Agricultural Practices (GAP) for medicinal and aromatic plants.
2. WHO. Guidelines on good agricultural and collection practices (GACP) for medicinal plants. 2003.
3. Kamilaris A, Fonts A, Prenafeta-Boldú FX. The rise of blockchain technology in agriculture and food supply chains. Trends Food Sci Technol. 2019.