Ziziphus mauritiana Lam. (Ber) Peel Powder -Nutritionally Rich residue for Animal Feed Supplements

Salient features

- > Ziziphus mauritiana Lam. (Ber) thrives well in drought, infertility, and salinity prone areas of arid and semi-arid regions of India.
- Large volume of residues generate during pre-processing
- ➤ Ziziphus var. 'Gola' dried at 80°C for period of 10-12hrs
- ➤ Ziziphus peel powder was rich in ash, ADF, and NDF content.
- Moisture content (d.b.) in Ziziphus peel powder was 5.9 %, protein 4.14 %, Fat 2.65, Ash 5.30 %, ADF 11.20 %, NDF 11.00 %

Advantages

- ✓ Utilization of the fruit residue generated during processing of the ziziphus fruit
- ✓ Enhanced economic importance and development of complete value chain of arid crop like Ziziphus.
- ✓ Dried peel powder can be used as feed supplements adjunct.



Ziziphus Peel Powder

Fresh Ziziphus fruits (Var. GOLA)

Process Technology /

Product

developed by

Year

Source of funding

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More information

Status of commercialization / Patent / Publications

Available under ABI technologies of CAZRI for training, licensing and commercialization

Soma Srivastava, Mrigya Bansal, Dilip Jain, Yashi Srivastava. (2022). Encapsulation for efficient spray drying of fruit juices with bioactive retention. Journal of Food Measurement and Characterization (2022) 16:3792–3814. https://doi.org/10.1007/s11694-022-01481-4

Soma Srivastava. 2022. Development of microencapsulated pomegranate powder for higher retention of bioactives. In: abstracts. International Conference on Advances in Agriculture and Food System (AAFS-2022) towards Sustainable Development Goals at University of Agricultural Sciences, Bangalore

Soma Srivastava.2022. Project report of Development of value chain for multi-purpose commercial utilization of selected arid fruits. F.No. Q-11/4/2020-R&D.