

POMEGRANATE PEEL POWDER -A FUNCTIONAL ADJUNCT FOR FEED SUPPLEMENTS

Salient features

- Pomegranate is important fruit crop with 0.20 Mha total area and 2.3 MT production
- Primarily grown in arid and semi-arid regions of India.
- Pre-processing steps generate large volume of residues in the form of peel and seeds nearly 25-30 % of total fruit weight.
- Convective air dried Pomegranate Peel Powder of var. 'Bhagwa' eluded the decay, had less water content and enhanced shelf-life

Advantages

- ✓ Pomegranate peel powder had in 6.5% Moisture content (d.b.), protein 4.00 %, Fat 0.40%, Ash 4.40 %, ADF 15.40 %, NDF 20.96 %, Total Phenolics 16.72 g/100g, Free Radical Scavenging Activity 5.00 ± 0.64 %, B- Complex vitamins D-pantothenic acid (mg/Kg) 450.09, Thiamine Hydrochloride (mg/Kg) 54.77, Nicotinic acid (mg/Kg) 379.18 and Cyanocobalamin (mg/Kg) 21.19.



Dried Pomegranate Peel & Pomegranate Peel Powder

Process

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Technology /

Product

developed by

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Year

2020-2023

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Ministry of Food Processing industries, MoFPI, New Delhi

*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.