



## RESEARCH PAPER

# Physico-chemical characterization of short grain aromatic rice of eastern Uttar Pradesh

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**Abstract :** Grain quality characteristics (Physico-chemical) of forty five short grain aromatic rices were evaluated in the Biochemistry Laboratory, Crop Research Station, (NDUAT) Masodha, Faizabad in 2012. Physico-chemical analysis of collected genotypes revealed that all these rices possess good grain and cooking quality. Among physical parameters of grain quality, the milling per cent among tested genotypes varied from 50.90 to 70.0 per cent. The maximum milling recovery (%) was recorded for Zeeringa shabha collected from Amethi area of district Sultanpur while volume expansion ratio varied from 1.90 to 5.50. Amylose content (%) ranged from 19.25 to 24.10 per cent. The lowest AC (%) was recorded in 'Lalmati (Kurauli, Barabanki)', whereas highest in 'Kalanamak (Tulsipur)'. Intermediate amylase content was recorded for all the tested rice genotypes.

**Key Words :** Physico-chemical, Amylose, Alkali spreading value, Volume expansion ratio, L/B ratio

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