

Uttar Sugandhi: High yield potential aromatic rice developed through pure line selection

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ABSTRACT

Uttar Sugandhi was developed through pure line selection from Kalonunia. The variety was released by state variety release committee for cultivation in West Bengal. It showed 16.15% yield advantage over Kalonunia in West Bengal, and it had 96.98% and 112.09% yield advantage against national check (Badshabhog) and regional check (Kalanamak) respectively in Maharashtra. It also showed 52.86% yield advantage over regional check (Kalanamak) in Odisha. Apart from yield advantage, it bears many desirable grain characters: the milling, hulling and head rice recovery are 81.85%, 70.8% and 67.0% respectively; it has medium slender kernel, 22.25% amylose content, 63.50 mm gel consistency and 14.83 g test weight. It has strong grain aroma. DNA finger printing was done along with the check varieties to characterize the variety at molecular level.

Keywords: Aromatic rice, high yield potential, medium slender, Uttar Sugandhi,