

## Seed quality, physical properties and proximate compositions of Adan rice

### ABSTRACT

In the presence study, Adan rice was evaluated for seed quality, some physical and proximate compositions. The seed purity and moisture content and germination was  $99.76\pm 0.07\%$ ,  $10.53 \pm 0.50\%$  and  $91.33\pm 1.29\%$  respectively. Adan rice seed took minimum 4 days to fully germinate. The physical properties of Adan Rice were evaluated at  $12.03 \pm 0.14\%$  moisture content. The length, width, thickness, 1000 grain weight, geometric mean dimension, surface area aspect ratio, and bulk density were 8.60mm, 2.13 mm, 1.67 mm, 15.28 g, 10.22mm, 27.04 24.83%,  $0.50\pm 0.01$  g/ml respectively. Proximate composition analysis assessment was done using Association of Official Analytical Chemists (AOAC) method. The moisture content, ash, protein, fat, carbohydrate and fibre were 10.43%, 0.50%, 6.30%, 0.22%, 81.49% and 5.61%. Gelatinization temperature was determined by using alkali-digestion test. Adan rice has an intermediate gelatinization temperature.

**Keyword:** Adan rice; Seed quality; Physical properties; Proximate composition