Abstract:

Seeds of seven faba bean genotypes, namely 00634, 00616, 00648, 00594, BB7, BF2/2/8/1 and H72, grown at four locations (Wad Medani, Shendi, El Rahad and Shambat), were used in this study. The results showed that the seeds contained 4.3% - 8.1% moisture, 1.9% - 5.3% ash, 0.7% - 1.4% fat, 6.8% - 12.4% crude fibre and 28.0% - 37.8% protein. The proximate composition of the seed coat was 3.2% - 8.9% moisture, 2.0% - 4.8% ash, 44.2% - 52.3% crude fibre and 5.2% - 9.7% protein. The seed coat percentage varied from 9.2% to 16.3%. The correlation between proximate composition, seed coat thickness and seed coat percentage revealed that the protein content was significantly and negatively \( r = -0.636 \) correlated with ash and crude fibre content \( r = -0.646 \), but it correlates significantly and negatively \( r = -0.687 \) with seed coat percentage.