

Title The authentication of Basmati rice using near infrared spectroscopy: some further analysis
Author W.J. Krzanowski
Citation J. Near Infrared Spectrosc. 3, 111-117 (1995)
Keywords: Extreme groups; orthogonal canonical variates; partial least squares; projections; rice

Abstract

The feasibility of using near infrared transmission spectroscopy to discriminate between Basmati and other long-grain rice samples has been demonstrated previously by Osborne *et al.* In their analysis they pooled samples from different countries of origin into the single category “other” and used the multivariate techniques of principal component analysis and linear discriminant functions to arrive at their conclusions. We reanalyze here their data but without such a major pooling of samples, retaining four groups in the discrimination. Using the multivariate techniques of partial least squares, orthogonal canonical variates and a recently proposed search for “extremeness”, we demonstrate complete support for the previous conclusions.