

Title A method research to nondestructive measure vitamin C content of citrus
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Abstract

In order to quest a method to nondestructive measure vitamin C content of Citrus, the effect of 11 pretreatment methods to the model based on PLS had been compared in the paper. The best effect of them was wavelet do-noised. And compared the model effect based on wavelet transformation by different decomposing level, the results show that the PLS results were not the same when the wavelet decomposing level was different. PLS result was the best at a wavelet decomposing level of 4. Its R was 0.9574, and its RMSECV was 3.9mg/100g. The wavelet do-noised was a efficient method to nondestructive measure vitamin C content of Citrus with near-infrared spectroscopy.