Accepted Manuscript

Potential of VIS-NIR hyperspectral imaging and chemometric methods to identify similar cultivars of nectarine

Sandra Munera, Jose Manuel Amigo, Nuria Aleixos, Pau Talens, Sergio Cubero, José Blasco

PII:	S0956-7135(17)30522-4
DOI:	10.1016/j.foodcont.2017.10.037
Reference:	JFCO 5846
To appear in:	*Food Control*
Received Date:	31 July 2017
Revised Date:	29 October 2017
Accepted Date:	30 October 2017

Please cite this article as: Sandra Munera, Jose Manuel Amigo, Nuria Aleixos, Pau Talens, Sergio Cubero, José Blasco, Potential of VIS-NIR hyperspectral imaging and chemometric methods to identify similar cultivars of nectarine, *Food Control* (2017), doi: 10.1016/j.foodcont.2017.10.037

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- Discriminated two externally identical cultivars using VIS-NIR hyperspectral imaging
- Prediction based on PLS-DA was graphically displayed on the images of the fruits
- Models based on chemometric methods achieved more than 95% correct classification
- Selection of 14 spectral bands achieved best accuracy in cultivar discrimination
- Hyperspectral technology performed better than colour imaging or human inspection

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8888094

Download Persian Version:

https://daneshyari.com/article/8888094

Daneshyari.com