

ARTICLE

A digital image-based method employing a spot-test for quantification of ethanol in drinks

Cite this: DOI:
10.1039/C4AY01811G

Received 31 Jul 2014,

Accepted 27 Aug 2014

www.rsc.org/

Luzia Pires dos Santos Benedetti,^a Vagner Bezerra dos Santos,^{a*} Tiago Almeida Silva,^a Edemar Benedetti Filho,^b Valdomiro Lacerda Martins^c and Orlando Fatibello-Filho^a

Electronic Supplementary Information (ESI)

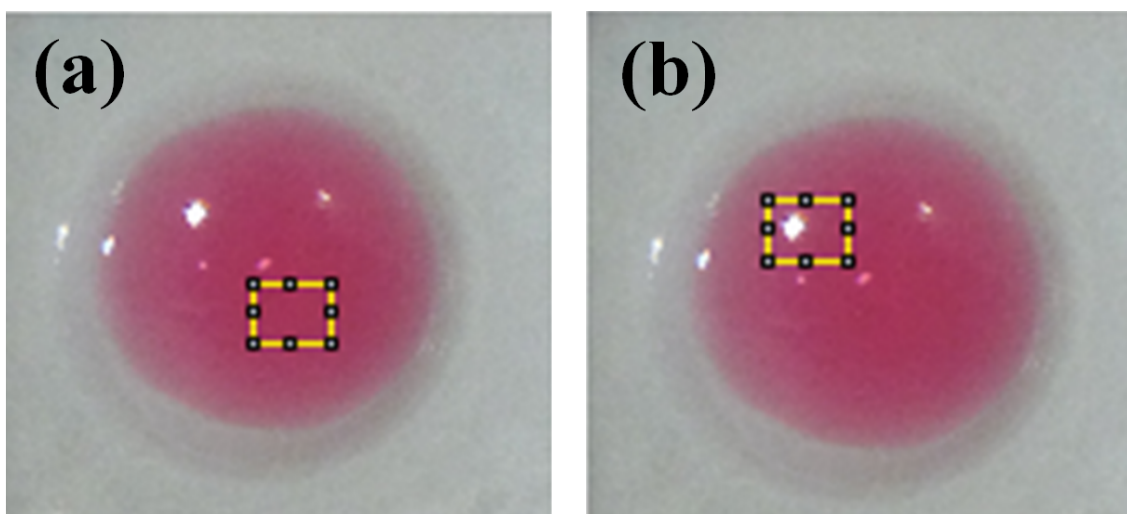


Fig. S1. Different regions selected from the same image of a $1.0 \times 10^{-4} \text{ mol L}^{-1}$ amaranth solution showing the selection of a (a) without and (b) brightness region.

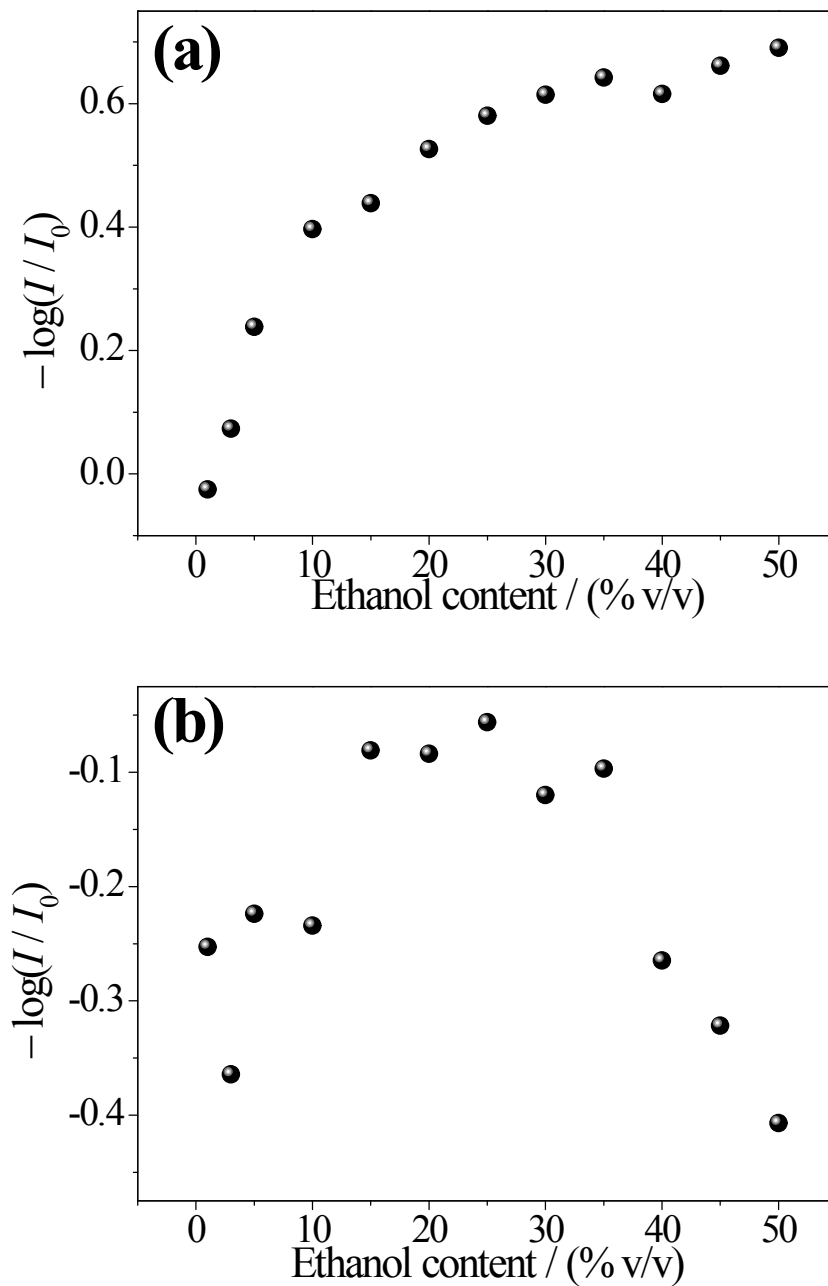


Fig. S2. Data obtained for different ethanol content (1.0 to 50.0% v/v) using the channels (a) G and (b) B.

Table S1. Results of mean, mode and standard deviation (SD) of the RGB channels obtained for selected areas of a same image of a 1.0×10^{-4} mol L⁻¹ amaranth solution (Fig. S1) with and without brightness.

Without Brightness				Brightness			
Channel	Mean	Mode	SD	Channel	Mean	Mode	SD
R	162	163	2	R	171	165	21
G	55	54	2	G	88	85	43
B	89	89	2	B	119	110	36