

Rapid analysis of milk using low-cost pocket-size NIR instrumentation and multivariate analysis

Jordi Riu^a, Giulia Gorla^b, Dib Chakif^a, Ricard Boqué^a, Barbara Giussani^b

^a Department of Analytical Chemistry and Organic Chemistry, Universitat Rovira i Virgili, 43007 Tarragona, Catalonia-Spain

^b Dipartimento di Scienza e Alta Tecnologia. Università degli Studi dell'Insubria. Via Valleggio, 9. 22100 Como, Italy

Supplementary Information

Table S1. List of milks

Commercial brand	Country	% fat	% protein	% carbohydrates
Asturiana	Spain	0.1	5	4.7
Puleva	Spain	2.9	2.6	5.3
Puleva	Spain	1.6	3.9	5.1
Carrefour	Spain	3.6	3.9	4.7
Celta	Spain	0.2	3.3	4.8
Puleva	Spain	1.6	3.1	4.8
Puleva	Spain	2.3	3.1	5.2
Hacendado	Spain	3	2.9	7
Flora	Spain	1.7	3.1	4.8
Nestle	Spain	3.4	1.9	7.2
Puleva	Spain	3.6	3	4.7
Puleva	Spain	1.6	4.1	5.8
Asana	Spain	3.6	3.3	4.8
Pascual	Spain	1.6	3	4.9
Nestle	Spain	2.5	2.1	9.3
Asturiana	Spain	1.5	2.8	4.6
Pascual	Spain	0.3	3.9	5.6
Asana	Spain	1.6	3.4	4.9
Asana	Spain	0.1	3.5	5

Hacendado	Spain	1.5	6.0	4.6
Pascual	Spain	3.6	3.9	5.7
Carrefour	Spain	1.5	3.2	4.7
Nestle	Spain	2.8	2.9	13.5
Sterilgarda	Italy	1.1	3.3	5.0
Nestlé	Switzerland	3.2	1.3	8.2
Nestlé	Switzerland	3.0	1.6	9.1
Mila	Italy	1.6	3.6	4.9
Mellin	Italy	1.9	1.5	6.3
Emmi	Switzerland	0.1	7.0	2.5
Léger	Switzerland	0.1	3.5	4.5
Granarolo	Italy	0.1	3.8	3.4
Plasmon	Italy	2.5	1.6	8.3
Carrefour	Spain	1.6	3.1	4.8
Parmalat	Italy	1.2	3.2	4.8
Accadi	Italy	1.0	3.1	3.1
Esselunga	Italy	1.6	3.4	5.2
Coop	Switzerland	2.7	3.2	4.9
Coop	Switzerland	3.5	3.2	4.9
Esselunga	Italy	0.1	3.5	5.3
Coop	Switzerland	3.9	3.2	4.9
Valflora	Switzerland	3.7	3.5	5.0
Granarolo	Italy	0.1	3.2	5
Esselunga	Italy	3.7	3.4	5.1
Granarolo	Italy	1.6	3.2	5
Parmalat	Italy	3	3.2	4.9