## A simple and fast triplex-PCR for the identification of milk's animal origin in Halloumi cheese and

yoghurt

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## SUPPLEMENTARY FILE

**Table 1:** Origin of primers, gene sequence position from start site, nucleotide sequence, melting temperature (T<sub>m</sub>), and size of product expected from PCR.

Origin	Gene Sequence Position	Primer Nucleotide Sequence	Amplicon , bp	T <sub>m</sub> ,°C
Universal, Forward (UN-FW)	400	5' TGAGGACAAATATCATTYTGAGGRGC 3'	-	61.6
Bos taurus, Reverse (BO-RV)	666	5' TAAGATGTCCTTAATGGTATAGTAG 3'	287	56.4
<i>Capra hircus</i> Reverse (CA-RV)	693	5' TTAGAACAAGAATTAGTAGCATGGCG 3'	313	60.1
<i>Ovis aries</i> Reverse (OV-RV)	710	5' GGCGTGAATAGTACTAGTAGCATGAGGATGA 3'	336	66.8

<sup>a</sup> The UN12S pair of primers were designed to bind and amplify the same complementary DNA sequence of the 12S rRNA gene in all mammalian species (Tobe and Linacre, 2008b)

**Table 2.** DNA amounts extracted from commercially available Cyprus Halloumi and Yoghurt products

Halloumi ID	Milk content	A260/	Total	Yogurt ID	Milk content	A260/	Total
code*	Species**	A280	DNA,	code*	Species**	A280	DNA,
			ng				ng
H1	100% goat	1.88	540	Y1	50: 50% Sheep: goat	1.94	6.66
H2	100% goat	1.66	675	Y2	100% cow	1.82	1.10
H3	100% goat	1.87	525	Y3	100% cow	1.94	10.05
H4	50: 50, % Sheep: goat	1.86	555	Y4	100% sheep	1.67	1.85
H5	50: 50, % Sheep: goat	1.75	630				
H6	50: 50, % Sheep: goat	1.84	510				

\*The Halloumi and yogurt samples obtained from supermarkets were coded to protect the anonymity of the producer;

\*\*The species origin and % milk content are as specified in the marketing labels of each product.