Journal of Chemical Health Risks

Journal of Chemical Health Risks (2016) 6(2), 85-90

ORIGINAL ARTICLE

Physicochemical and Bacterial Properties of Pasteurized Milk Samples Collected from Tabriz, Northwestern Iran

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(Received: 6 December 2015 Accepted: 9 February 2016)

	ABSTRACT: Milk and dairy products are important components of a balanced diet. Milk does
KEYWORDS	have distinct physicochemical, biological and microbial characteristics. The bacterial
	contamination of milk not only reduces the nutritional quality but its consumption threatens health
Pasteurized milk;	of the society. In this study, 100 pasteurized milk samples were collected randomly from Tabriz
Microbial quality;	City, northwestern and were analyzed for total plate count (TPC), coliform, E. coli and some
Physicochemical	physicochemical properties (pH, titratable acidity and density). 33.3% of samples had
properties; Iran	unacceptable microbial contamination in both warm and cold seasons. E. coli contamination was
	not detected in all milk samples, but 54% of pasteurized milk samples were contaminated with
	coliforms. The pH value (6.6-6.8) and titratable acidity (0.14-0.16%) were in acceptable range.
	The means value of samples' density was 1028.79±1.04. Lower microbial contamination level in
	this area indicates that the dairy factories are concerned about appropriate sanitary practice and
	pasteurization process.
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