



Detection of Adulterants in Milk from Different Areas of Patna

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Milk, used as a basic food in India especially by children, old people and pregnant woman is being subjected to malicious practices such as adulterated by some milk vendors and khattal milkmen. Milk adulterated with toxic additives such as urea, formalin, water, salt sugar etc. should be properly checked. For this samples of khattal milk was collected from different areas of Patna namely Boring Road, Patliputra and Digha and adulterants were detected at Sudha Dairy Industry's laboratory. One sample of Sudha dairy was also taken to compare to quality difference. No adulterants were detected in Sudha Dairy Milk but of sample from Boring Road showed the presence of water, formalin & neutralizers, from Patliputra the common adulterants were formalin, neutralizers, sugar and water and Digha sample showed the presence of neutralizer, starch, urea and water. Thus, it was deduced that water due to its cheap availability dominated as an adulterant in a forementioned areas.

The adulterants pose great health hazards like they damage liver, heart & kidney, may also lead to heart attack. It's peak time to generate awareness and strict actions should be taken by the Indian Government so that neither the Khattal owners nor the Pilot Scale Dairy Industries should perform such malicious practices.

Some remedies suggested here to preserve milk is to store it at $4 \pm 2^{\circ} \text{C}$ i.e. to prefer chilled and pasteurized conditions to preserve milk. Also, sensing systems for frequently used milk adulterants like whey protein and detergents should be developed to test the quality of milk.

Key words :- Milk, Adulterants, Khattal Milk, Quality.
