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Research Paper:

Utilization of paneer whey for the preparation of whey corn flour soup

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ABSTRACT

Whey is a major source of energy giving lactose, vitamin, minerals and good source of heat promoting whey protein. The present work was conducted with the objectives to prepare whey corn flour soup and studying its organoleptic and chemical properties. The experiment was replicated six times and the data obtained during the investigation were statistically analyzed by using analysis of variance (ANOVA) and critical difference (CD) techniques. Whey corn flour soup prepared by admixture of water and whey in ratio of 1:1,1:2,1:3 served as T_1 , T_2 and T_3 , respectively. The quality of whey corn soup was compared to that of the control T_0 , corn flour soup prepared from water. Sensory evaluation of prepared whey corn flour soup was carried out using the nine points Hedonic scale. Fat, protein, carbohydrate and total solid were found to be highest in treatment $T_3(1:3)$ 1.283,0.63,7.0 and 10.612, respectively. $T_2(1:2)$ recorded highest scores in flavour and taste, consistency, colour and appearance and overall acceptability. Whey based ready to serve beverage offers the advantages of convenience for busy consumers.

Key words: Whey, Paneer, Chhana, Corn flour soup, Beverages, By-products

They is an excellent beverage base and genuine thrust quencher, nutritious and possesses medicinal properties but treated as waste dairy by-product. On one side, it controls the pollution and on the other hand adds value to the products. Paneer whey contains water 93.6 per cent, fat 0.5 per cent, protein 0.4 per cent, lactose 5.1 per cent and ash 0.4 per cent(Day, 1977). Paneer whey soup increases the appetite and it is also helpful in case of diarrhea and liver problems. On the other hand paneer whey soup contains good amount of carbohydrate, fat, protein and minerals. So, that keeping the above mentioned reasons in the mind, we have utilized the whey for the preparation of whey corn soup .The present study was conducted with the objectives to find out the feasibility of utilizing whey for soup making and to find out the chemical and organoleptic quality of whey corn flour soup.

METHODOLOGY

The research work was carried out in the research laboratory of Department of Dairy Technology, Allahabad Agricultural Institute-Deemed University, Allahabad.

Collection of ingredients:

Skimed milk and whey were collected from Students Training Dairy Allahabad Agricultural Institute, Deemed University. Other ingredients were collected from local market of Allahabad.

Development of whey corn flour soup:

Sauted the firmly onion and garlic paste into butter over a slow flame in frying pan

Take calculated amount of corn flour mixed in water and add chilli sauce, vineger, (salt, sugar, jeera powder black pepper)

Cook till whole base ingredient become gelatinized

Pour slowly paneer whey and water mixed by gentle stirring over slow flame at 80-85°C

Collect the soup and serve hot

Detail of treatments and replications:

Fig. 1: Flow diagram of whey corn flour soup

 T_0 control= Corn flour soup prepared without addition of whey, T_1 = Corn flour soup prepared with addition of whey in the ratio of 1:1, T_2 = Corn flour soup prepared with addition of whey in the ratio of 1:2, T_3 = Corn flour soup prepared with addition of whey in the ratio of 1:3