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STORAGE OF SALMONELLA, ESHIRICHIA AND STAPHYLOCOCCUS IN SOME DAIRY PRODUCTS DURING ITS STORAGE AT DIFFERENT TEMPERATURES.

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Abstract:

The article discusses the preservation of salmonella, Escherichia coli and staphylococci in cottage cheese when stored at room conditions (at a temperature of 20-24°C) and in a refrigerator (at a temperature of +3°C.). The main attention is paid to the identification of the terms of survival of crops in cottage cheese during interval studies.

Keywords: S. enteritidis gartneri, S. typhimurium, E. coli, Staphylococcus aureus, Staphylococcus epidermidis, Staphylococcus saprophyticus

THE PURPOSE OF THE WORK . Study on the basis of microbiological studies of the persistence of Salmonella, Escherichia coli and staphylococci in cottage cheese when stored at room conditions (at a temperature of 20-24°C) and in a refrigerator at a temperature of + 3°C.)

MATERIALS AND METHODS. Salmonella cultures were taken for the experiment: S. enteritidis gartneri, S. typhi murium; coli enteropathogenic serotypes - *Escherichia coli* O9, O26 and O111 and staphylococci forming golden yellow (*Staphylococcus aureus)*, lemon yellow (*Staphylococcus saprophyticus)* and white (*Staphylococcus epidermidis)* pigments.

Determination of the terms of survival of cultures in cottage cheese after various periods of time was established on the MPB, MPA, and studied the morphological and serological properties with specific sera.

The results of the conducted studies are presented in tables 1 and 2.

Table 1
Persistence of microorganisms in cottage cheese stored at room conditions

Storage conditions, temperature	Cultures of microorganisms taken for research	Study days					
		2nd	3rd	4th	5th	6th	7th
Indoor 20-24 °C	*S. Enteritidis gartneri*	+	+	+	+	—	—
	S. typhimurium	+	+	+	—	—	—
	Serotypes of Escherichia coli:						
	About 9	+	+	+	+	—	—
	E. coli O26	+	+	+	+	—	—
	E. coli O111	+	+	+	+	—	—
	Staphylococci:						
	Staphylococcus aureus	+	+	+	—	—	—
	Staphylococcus epidermidis	+	+	—	—	—	—
	Staphylococcus saprophyticus	+	+	—	+	—	—

LEGEND:

+ - microorganisms detected;

— - microorganisms are not detected.

As can be seen from Table 1, in cottage cheese stored at room conditions, Salmonella persisted for 4-5 days (especially *S. enteritidis gartneri)*, enteropathogenic Escherichia coli serotypes—5-6 days (especially O26), and staphylococci —3-5 days (especially *Staphylococcus epidermidis)*.

Further studies were not carried out, since the curd has changed organoleptically and has become unsuitable for human consumption.

As can be seen from Table 2, in cottage cheese stored in the refrigerator, Salmonella persisted for 6-7 days (especially *S. typhi murium)*, enteropathogenic Escherichia coli serotypes -7-8 days (especially *E. coli* O26 and *E. coli* O111) and staphylococci - 6-8 days (especially *Staphylococcus*

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aureus).

Table 2
Persistence of microorganisms in cottage cheese stored in the refrigerator

Storage conditions, temperature	Cultures of microorganisms taken for research	Study days							
		2nd	3rd	4th	5th	6th	7th	8th	9th
Fridge (+3°C)	*S. Enteritidis Gartneri*	—	+	+	+	+	—	—	—
	S. typhimurium	—	+	+	+	+	+	—	—
	Serotypes of Escherichia coli:								
	E. coli O 9	—	+	+	+	+	+	—	—
	E. coli O26	—	+	+	+	+	+	—	—
	E. coli O111	—	+	+	+	+	—	—	—
	Staphylococci:								
	Staphylococcus aureus	—	+	+	+	+	—	—	—
	Staphylococcus epidermidis	—	+	+	+	+	—	—	—
	Staphylococcus saprophyticus	—	+	+	+	+	—	—	—

Symbols are the same as in Table 1.

CONCLUSIONS. Thus, in cottage cheese stored under normal conditions (room and refrigerator), Salmonella, Escherichia coli and Staphylococcus aureus survive for a long time. If the above microorganisms are found in the curd, the product is considered unfit for consumption. Obviously, it is possible to use these products after appropriate heat treatment, but at the same time organoleptic properties of cottage cheese change.

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