



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



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بعض الوثائق الأصلية تالفة



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بالرسالة صفحات
لم ترد بالأصل

Studies on Ras cheese infested with mites

By

Sherif Maher Mahmoud EL.Shahed

B.Sc. Agric.Sci. (Dairy Sci. & Tech.), Ain Shams University (1993)

A thesis submitted in partial fulfillment
of
the requirements for the degree of

**Master of Science
in**

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(Dairy Science & Technology)**

**Food Science Department
Faculty of Agriculture
Ain Shams University**

2000

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Approval sheet

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ABSTRACT

Sherif Maher Mahmoud. Studies on Ras cheese infested with mites. Unpublished Master of Science Thesis, Ain Shams University, Faculty of Agriculture, Food Science Department, 2000.

A survey of the most common species of mites and their counts per /100g were determined in infested Ras cheese samples collected from different markets in Egypt and their effect on the chemical and microbiological quality were studied. *Tyrophagus putrescentiae* was the only mite species found. No relationship between the chemical and the microbiological quality of the infested samples and the mites numbers was found. The effect of mites infestation time and the use of some acaricides (Potassium sorbate, H_2O_2 and Delvocide) on the chemical and microbiological quality of Ras cheese was studied during ripening. Delvocide was the most effective acaricide as compared with the other acaricides. H_2O_2 had the lowest effect on yeast and mould counts comparing with the other acaricides. Ras cheese infested with *Tyrophagus putrescentiae* without treatment had the lowest moisture content and highest soluble nitrogen in total nitrogen, tyrosine and tryptophan and total volatile fatty acids contents. Therefore, it could be recommended, to use 0.02% Delvocide solution as a dipping solution for cheese molds to protect Ras cheese from mites infestation without any effect on the cheese quality.

Key words: Ras cheese, mites, *Tyrophagus putrescentiae*, ripening, acaricides, Delvocide, potassium sorbate, H_2O_2 .

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