

Chapter 3. Factors that Influence Microbial Growth

December 31, 2001

Evaluation and Definition of Potentially Hazardous Foods

1. Introduction

The factors discussed in this section constitute an inclusive, rather than exclusive, list of intrinsic, extrinsic, and other factors that may be considered when determining whether a food or category of foods requires time/temperature control during storage, distribution, sale and handling at retail and in food service to assure consumer protection.

Many factors must be evaluated for each specific food when making decisions on whether it needs time/temperature control for safety. These can be divided into intrinsic and extrinsic factors. Intrinsic factors are those that are characteristic of the food itself; extrinsic factors are those that refer to the environment surrounding the food. The need for time/temperature control is primarily determined by 1) the potential for contamination with pathogenic microorganisms of concern (including processing influences), and 2) the potential for subsequent growth and/or toxin production.

Most authorities are likely to divide foods among three categories based on an evaluation of the factors described below: those that do not need time/temperature control for protection of consumer safety; those that need time/temperature control; and those where the exact status is questionable. In the case of questionable products, further scientific evidence--such as modeling of microbial growth or death, or actual microbiological challenge studies--may help to inform the decision.

2. Intrinsic factors

2.1. Moisture content

Microorganisms need water in an available form to grow in food products. The control of the moisture content in foods is one of the oldest exploited preservation strategies. Food microbiologists generally describe the water requirements of microorganisms in terms of the water activity (a_w) of the food or environment. Water activity is defined as the ratio of water vapor pressure of the food substrate to the vapor pressure of pure water at the same temperature (Jay 2000b, p 41):

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Thomas Alexander McMeekin



Chapter 3 Factors That Influence Microbial Growth:

Embracing the Track of Phrase: An Psychological Symphony within **Chapter 3 Factors That Influence Microbial Growth**

In a global consumed by displays and the ceaseless chatter of instantaneous communication, the melodic beauty and psychological symphony produced by the prepared word usually diminish in to the background, eclipsed by the persistent sound and disruptions that permeate our lives. However, located within the pages of **Chapter 3 Factors That Influence Microbial Growth** a marvelous literary value full of organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that charming masterpiece conducts visitors on an emotional journey, skillfully unraveling the hidden tunes and profound affect resonating within each cautiously constructed phrase. Within the depths with this moving review, we will discover the book is central harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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