



# Food Safety Management: Chapter 19. Acids and Fermentation

*Martin R. Adams*

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Acidity, acid strength ( $pK_a$ ), pH and their interrelationship are described. The roles played by acids in foods either as endogenous constituents, added ingredients or generated in situ as products of bacterial fermentation are discussed along with the moderation of their effects by dilution due to food moisture and endogenous buffering capacity. The inhibition of growth and survival of microorganisms by acids is discussed along with the ways in which this can be used to control pathogens in foods. Some approaches to predicting the inhibition of pathogens by acidity show how safety can be designed into new food products and critical limits derived for critical control points in the manufacture of existing products. The limitations of acidity as a control measure are illustrated with some examples of outbreaks of foodborne illness in which they have been implicated.



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Playing with family in the park, coming to see the marine world or hanging out with good friends is thing that usually you could have done when you have spare time, in that case why you don't try issue that really opposite from that. One particular activity that make you not feeling tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of knowledge. Even you love Food Safety Management: Chapter 19. Acids and Fermentation, you can enjoy both. It is very good combination right, you still would like to miss it? What kind of hang-out type is it? Oh come on its mind hangout guys. What? Still don't have it, oh come on its known as reading friends.

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