Description, AN, Water activity for jerky meat		Part # and Rev. 13434-01	
		Release Date:	
Rev.	Description	Revision By	Date

Production Filename: 13434 (In Product Library)

Path to Working Files: DecaDoc\Application Notes\Master

Dimensions: 8.5 inch wide, 11 inch tall

Material: Paper, 92 Bright White or better, 75g/m² or heavier

Colors: Color Print on White

Printer: HP Color LaserJet 8550-PS

Finish: None

Adhesive: None

Special Notes: Illustrations are Ref Only ** Not to Scale ** (Shown page 1 of 2)



dried shelf-amble product. Preparation of jetyle untally consist of 5 steps, namely. D stup preparation, 2) marination, 3) intervention unchose as each days, 4) shelmly trestments, and 5) drying. The jetch process must eliminate potential hazarist due to microbial contamination. The main publicages of encorem as Salmonellia pp. Literies monocytogenes. Supplysoccess amenu, and Eucherichia cold. Supplysoccess amenu, and Eucherichia cold. The primary control points for eliminating microbial hazaris see chings the feathily and drying steps. The Jetality step destroys any existing publicages and the design step reduces the water activity of the jetyly below the critical shelf stable value of 26 stable value of 2

The Role of Water Activity

Whet activity is a measure of the energy intains of water in a system and prefect which microorganisms will grow in a food disconganisms require water of a specific disconganisms of the system of th

are considered shelf stable and do not need to be refrigerated. At water activity values of 0.85, none of the potentially hazardous pathogens listed in Table 1 can grow and the only remaining microbial issue is molds, which can be controlled with preservatives or packaging (Table 1).

able 1. Meat and poultry pathogens of concern and their water activity growth limits. Microorganism Water Activity Growth Limit Valu

cherichia coli 0.95 monella spp. 0.95 teria monoctyogenes 0.92 hphylococcus aureus 0.86

The USDA Food Safety and Impaction Service FISSIS has outlined their requirements for just, safety in "Compliance Guideline for Meat and Poulty-Jesly." This discretive states that jeslpoulters as should not use moistour protein and MCPUT as a measure of proper drying for the MCPUT as a measure of proper drying for the MCPUT as a measure of proper drying for the vary prealty at any given MPT, doe to differe using partly at any given MPT, doe to differe concentrated in highlistic of pathogen growth. The directive also outlines the importance or maintaining high limitative values for the properties becoming best resistant and surviving the kil-

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