

QUALITY ASSURANCE OPERATION IN THE PRODUCTION OF  
SPORTS DRINK IN RETURNABLE GLASS BOTTLES (ROB) AND  
POLYETHYLENE TEREPHTHALATE (PET) BOTTLES  
AT PEPSI COLA PRODUCTS PHILIPPINES INC.

Plant Practice

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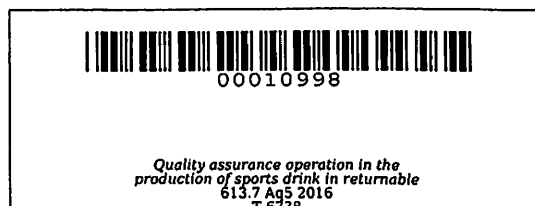
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PHILIPPINES INC.**

Plant Practice Report  
Submitted to the Faculty of the  
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Bachelor of Science in Food Technology



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## **ABSTRACT**

**AQUINO, JOANNE F.** Quality Assurance Operation in the Production of Sports Drink in Returnable Glass Bottle (RGB) and Polyethylene Terephthalate (PET) Bottles at Pepsi Cola Products Philippines Inc. Plant Practice Report. Bachelor of Science in Food Technology. Cavite State University, Indang, Cavite. Adviser: Mrs. Aitee Janelle E. Reterta, MS.

A Plant Practice Report entitled “Quality Assurance Operation in the Production of Sports Drink in Returnable Glass Bottle (RGB) and Polyethylene Terephthalate (PET) Bottles at Pepsi Cola Products Philippines Inc., was conducted at PCPPI Km.29 National Road, Tunasan, Muntinlupa City from January 21 to March 13, 2015. This plant practice was conducted for the student trainee to gain knowledge and experience in actual quality assurance operations in food manufacturing industry. Specifically, this plant practice aimed to provide the student the opportunity to observe quality assurance operation in the production of sports drink at PCPPI; perform hands-on quality testing and product evaluation for sports drink; and provide the student with the proper working attitude.

The student trainee was assigned in the receiving section of different packaging materials like, preforms, labels, caps and crowns. Certification of Analysis (COA) is the basis in the receiving section if the product will be accepted or rejected. Hands on testing in in-line monitoring, physic-chemical analyses and microbiological analyses for sports drink were conducted.

This plant practice also enabled the student trainee to develop good personnel relation, self-confidence, and self-discipline in accomplishing her tasks in the plant. The student appreciated the role of food technologists in the food manufacturing industry.

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**Joanne F. Aquino**

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**INTRODUCTION**

Gatorade is a brand of sports drink currently manufactured by PepsiCo. The beverage was first developed in 1965 by a team of researchers at the University of Florida, to replenish the combination of water, carbohydrates, and electrolytes that the school's student-athletes lost in sweat during rigorous sport activities. It was created to help the athletes by acting as a replacement for body fluids lost during physical exertion. Sports drinks usually rich in carbohydrates - the most efficient source of energy. As well as carbs, which are important in maintaining exercise and sport performance (Kays et al., 2010).

Pepsi-Cola Products Philippines Inc. (PCPPI) is one of many companies that are relying on Quality Assurance Technologists to ensure that the products are safe and has a