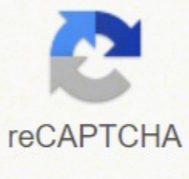




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(EXPERIMENT 2)

FATTY ACID DETERMINATION USING CHROMATOGRAPHY (GC)

PDF

NAME: MOHAMAD HON SUZILA, AZHAR BIN HAN

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- PARTNER'S NAME:
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 2. MOHAMMAD SHAFIQ BIN FARRUK
 3. MOHAMMAD ACHMAD BIN MOHAMMAD MOON

DATE OF EXPERIMENT: 28/05/2024

DATE OF SUBMISSION: 27/05/24

Extraction and Identification of Organic Molecules from Orange Peels

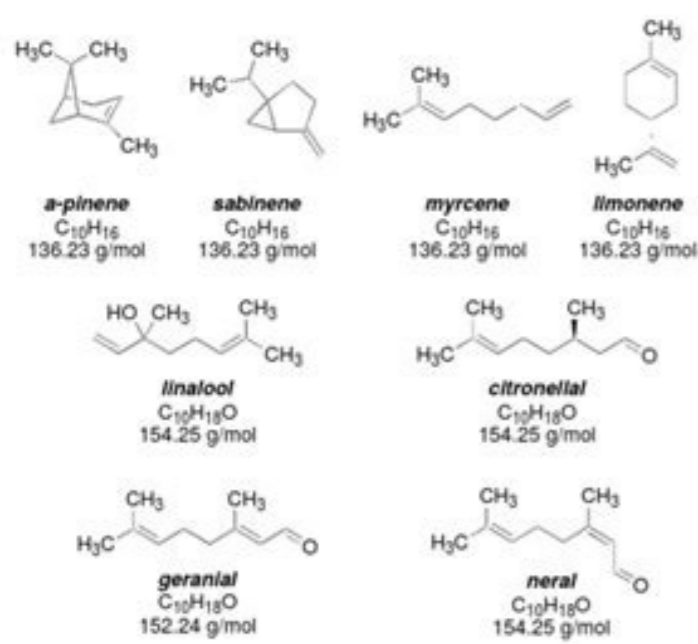
— Using GC/MS —

References Partially adapted from: McKenzie, L. C.; Thompson, J. E.; Sullivan, R.; Hutchison, J. E. *Journal of Green Chemistry*, 2004, 6, 355-358 www.wikipedia.org (components of orange oil and descriptions)

Objective The purpose of this laboratory is to use separation techniques to extract organic molecules from orange peels and use gas chromatography with mass spectroscopy (GC/MS) to detect emissions of volatile organic compounds.

Background

Orange oil, which can be extracted from orange peels, is composed of variety of organic compounds which are part of the terpene family, shown below:



SOP of development and validation of analytical method for equipment cleaning

- 1.0 PURPOSE:**
- 1.1 To lay down the procedure for development and validation of analytical method for equipment cleaning.
- 2.0 SCOPE:**
- 2.1 This procedure is applicable for Development and Validation of Analytical Method for equipment cleaning.
- 3.0 RESPONSIBILITY:**
- 3.1 Senior Executive - QC
- 4.0 ACCOUNTABILITY:**
- 4.1 Manager - QC
- 5.0 PROCEDURE:**
- 5.1 Review the written cleaning procedure to determine what cleaning agents are used, such as water, alcohol, etc.
 - 5.2 From information about the target analyte (least soluble active drug substance), determine what kind of analytical procedure will be used to measure any residual of the target analyte after cleaning. As per following table.

Target Analyte	Method	Reason
UV-Visible active drug where no other components of the product are UV-Visible active	UV spectroscopy	<ol style="list-style-type: none"> 1. Sensitivity 2. Selectivity because of knowledge of matrix
UV-active drug where other components of the product are UV active	HPLC	<ol style="list-style-type: none"> 1. Sensitivity, if the correct wavelength is chosen. 2. Selectivity based on separation of analyte from matrix
UV inactive drugs that are	GC	<ol style="list-style-type: none"> 1. Sensitivity if correct detector

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