

SAMPLE FOR 108M NOTEBOOK FORMAT

- Experiments are prepared by hand in a lab notebook with carbon-copy pages, turned in with the lab report.
- You may use the content below for Exp 1, after that you're on your own! Use only black or blue ink

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Exp 1 - Separation of Limonene & Carvone

(also fill in date, section #, lab day & time)

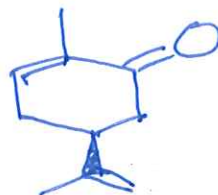
PURPOSE The purpose of the experiment is to separate limonene & carvone from an unknown essential oil using column chromatography & analyze by GC & IR.

Oil A/B
UNK

SiO₂
Hexanes,
10% Acetone in hexanes



1, limonene



2, carvone

REAGENT TABLE

Compound	Amount	MW (g/mol)	BP (°C)	D (g/mL)	Hazard
UNK	0.15 mL	-	-	-	Irritant
SiO ₂	approx. 1g	68.08	N/A	2.648	"
<u>1</u>	-	136.24	176	0.841	"
<u>2</u>	-	150.22	231	0.96	"
n-Hexanes	2+2+2 mL	86.18	68	0.655	Flammable
10% Acetone	2+2 mL	58.08	56	0.791	Flammable

PROCEDURE - hand-written, step-by-step instructions, keep under 2 pages where possible. Leave space for data & observations.

CLEANUP & SAFETY - copy table from handout

IN-LAB QUESTIONS - copy an abbreviated version here to make sure you get all results!