

Name: _____

Experiment: _____

Purpose:-

is to learn some lab techniques such as weighing and making transfers, extraction, separation, vacuum filtration, ~~and~~ and understand that it's the most natural products, and to obtain a pure Analgesic drug from a mixture by extraction and filtration, and liquid by distillation.

Chemical equation:-

No chemical reaction will be performed.

procedures-

- * Crush tablets using pestle between 2 pieces of weighing paper.
- * add the crushed tablet into 3 ml conical vial
- * ~~by using~~ add 2 mL of methylal into the conical vial by using calibrated pasture pipet.
- * cap the vial and shake it, until it mixed, loosen the cap a bit to release any pressure in the vial.
- * using a filter-tip pipet, transfer the liquid to a centrifuge tube.
- * add 2 ml of methanol into the vial and shake * repeat the same process mentioned above *.

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* place the second vial in the centrifuge ~~opposite~~ in a opposite side of equal weight.

* centrifuge the mixture for 2-3 minutes, until the liquid is completely clear.

* Transfer the supernatant liquid into a beaker using pasteurizer pipet

⇒ Column Chromatography, -

* Prepare an alumina column by inserting a small piece of cotton in to the bottom of the pasteurizer pipet.

* add 5g of alumina to the pipet and tap it to pack the alumina

* clamp the pipet in a vertical position so the liquid can drain from the column into a 5ml of conical vial.

or using calibrated pasteurizer pipet, add 2 ml of methanol to the column and allow it to drain until it reach the alumina. * make sure it does not get dry.

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H₂O

* methanol :

→ molar mass: 32.04 g/mol | Density: 792 kg/m³
Boiling point: -148.5 °F | melting point: -143.7 °C

* Alumina

→ molar mass: 101.96 g/mol | Density: 3.95 g/cm³
Boiling point: 5.391 °F | melting point: 3.762 °F

* Aspirin:

→ molar mass: 180.157 g/mol | Density: 1.40 g/cm³
Boiling point: 140 °C | melting point 135 °C

325mg Aspirin

59 °C

watch glass = 7.728g
watch glass w/ Aspirin = 7.939g

Aspirin remaining = 0.211g

T₁ 123 - 128

T₂ 124 - 129

T₃ 123 - 128