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| Doctor of pharmacy program | | Pharmacy skill laboratory (PHAR 321) | |
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| Students name: | Fairouz Zayed  Dana Sadaqa  Costa Shubeita | Students numbers: | 1160750  1160832 |
| Experiment name: | Potassium chlorate and phenol gargle | Experiment number: | 2.1 |

**Product formula:**

| No. | Ingredients | Quantity | Dispensed by | Checked by |
| --- | --- | --- | --- | --- |
| 1 | Potassium chlorate | 1.5g | Fariouz, Costa and Dana | Dr. Firas |
| 2 | Patent blue V | 1 drop | Fariouz, Costa and Dana | Dr. Firas |
| 3 | Liquefied phenol | 0.75ml | Fariouz, Costa and Dana | Dr. Firas |
| 4 | Water qs | 50ml | Fariouz, Costa and Dana | Dr. Firas |

**Pharmaceutical drug in pharmacy:**

* Trade name:
* Company:
* Active pharmaceutical ingredient (s): potassium chlorate, liquid phenol.

**About product:**

Product name: potassium chlorate and phenol

Product’s components and their roles:

| No. | Ingredient | Role |
| --- | --- | --- |
| 1 | Potassium chlorate | Antiseptic, astringent, sialagogue which increases secretion of saliva |
| 2 | Patent blue V | Coloring agent |
| 3 | Liquefied phenol | Antiseptic, bactericidal |
| 4 | Water | Solvent |

**Counselling:**

* Indication (Why the medicine is given):

Throat, pharynx and nasopharynx infections

* Administration (How to use it):

Dilute with 10 times the volume of three 5ml spoonfuls, and use as needed, DON’T SWALLOW in large quantities. For external use only.

* Adverse effects:

If ingested it causes abdominal pain, Blue lips or fingernails, Blue skin, Confusion, Convulsions, Diarrhea, and Dizziness.

* Storage conditions:

Don’t freeze, store in a cool dark place away from heat light and moisture. Store in a well-closed air tight container

Store in an amber bottle with child resistant container

**About experiment:**

* Calculations:

All weights and volumes were divided by 2 to make 50ml instead of 100ml.

Dosage strength: (1.5/50)\*100% = 3% potassium chlorate

: (0.75ml/50) \*100% = 1.5% Liduid phenol

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| Students name: | Fairouz zayed  Dana sadaqa  Costa shubeita | Students numbers: | 1160750  1160832  116 |
| Experiment name: | Sodium chloride mouth-wash | Experiment number: | 2.2 |

**Product formula:**

| No. | Ingredients | Quantity | Dispensed by | Checked by |
| --- | --- | --- | --- | --- |
| 1 | Sodium chloride | 1.5 g | Fariouz, Costa and Dana | Dr.firas |
| 2 | Sodium bicarbonate | 1 g | Fariouz, Costa and Dana | Dr.firas |
| 3 | Peppermint spirit | 1 drop | Fariouz, Costa and Dana | Dr.firas |
| 4 | Chloroform water double strength | 50 ml | Fariouz, Costa and Dana | Dr.firas |
| 5 | Water qs | 100 ml | Fariouz, Costa and Dana | Dr.firas |

**Pharmaceutical drug in pharmacy:**

* Trade name: blan x
* Company: coswell
* Active pharmaceutical ingredient (s): sodium chloride, sodium bicarbonate

**About product:**

Product name: sodium chloride mouth-wash

Product’s components and their roles:

| No. | Ingredient | Role |
| --- | --- | --- |
| 1 | Sodium chloride | Deodorant, antimicrobial agent, provides a hypertonic environment and kills bacteria by osmosis |
| 2 | Sodium bicarbonate | Deodorant, antacid, dissolves the mucus. |
| 3 | Peppermint spirit | Flavoring agent |
| 4 | Chloroform water double strength | Flavoring agent, preservative |
| 5 | Water qs | Solvent |

**Counselling:**

* Indication (Why the medicine is given):

Deodorant, for inflamed, sore and bleeding gums, treatment and prophylaxes for throat infections.

* Administration (How to use it):

Dilute 20 ml of mouth wash with 20 ml of water, use every 4 hours as needed, DON’T swallow in large amounts to avoid nausea and vomiting. If you suffered from ANY side effects stop the medication and revise the doctor.

* Adverse effects:

If ingested, may cause nausea, vomiting, diarrhea and skin rash.

* Storage conditions:

Store in a cool, and dark place, away from heat, light and children.

Store in an amber bottle with child resistant container

**About experiment:**

* Calculations:

Dosage strength: (1.5/100)\*100%= 1.5% sodium chloride

: (1/100)\*100%= 1% sodium bicarbonate

* NaHCO3 🡪 H2O

1 part 🡪 11part

1g 🡪 ??

11ml water is needed.

* NaCl 🡪 H2O

1 part🡪 3parts

1.5g 🡪 ??

4.5ml water is needed

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| Doctor of pharmacy program | | Pharmacy skill laboratory (PHAR 321) | |
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| Students name: | Dana Sadaqa  Fairouz Zayed  Costa Shubetia | Students numbers: | 1160832  1160750 |
| Experiment name: | Iodine- glycerin dental | Experiment number: | 2.3 |

**Product formula:**

| No. | Ingredients | Quantity | Dispensed by | Checked by |
| --- | --- | --- | --- | --- |
| 1 | Iodine | 10g | Fariouz, Costa and Dana | Dr. Firas |
| 2 | Potassium iodide | 8g | Fariouz, Costa and Dana | Dr. Firas |
| 3 | Zinc sulfate | 1.78g | Fariouz, Costa and Dana | Dr. Firas |
| 4 | Glycerol | 35ml | Fariouz, Costa and Dana | Dr. Firas |
| 5 | Water qs | 100ml | Fariouz, Costa and Dana | Dr. Firas |

**Pharmaceutical drug in pharmacy:**

* Trade name: Dental Iodine glycerin
* Company: Agasa Japan
* Active pharmaceutical ingredient (s): Iodine - glycerin

**About product:**

Product name: Dental Iodine glycerin

Product’s components and their roles:

| No. | Ingredient | Role |
| --- | --- | --- |
| 1 | Iodine | Antiseptic and antifungal |
| 2 | Potassium iodide | Solubilizing agent |
| 3 | Zinc sulfate | Antibacterial and deodorant |
| 4 | glycerol | Thickening agent, co-solvent and sweetener |
| 5 | water | Solvent |

**Counseling:**

* Indication (Why the medicine is given):

Oral ulcers, gingivitis and pericoronitis inflammations.

* Administration (How to use it):

Use as indicated by the doctor, put it on the affected area using a cotton pad. Avoid using for a long time as it causes teeth staining.

* Adverse effects: teeth staining, if swallowed it causes nausea vomiting and irritation.
* Storage conditions: Store in a cool dark place, away from reach of children.

**About experiment:**

* Calculations:

ZnSO4 🡪 ZnSO4.7H2O

1g 🡪 ??

161.47g/mol 🡪 287.54 g/mol

Mass used = 1.78g

Dosage strength = 10/100 \* 100% = 10% iodine

**-References:**

1- <https://www.pharmacompass.com/chemistry-chemical-name/potassium-chlorate>

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