



Hashemite University
Faculty of Pharmaceutical Sciences
Department of Pharmaceutical Chemistry

Practical Pharmaceutical Instrumental Analysis (131703316) Reports

Section number : _____

Group number: _____

| Student name | Student number |
|---------------------|-----------------------|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |

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2023

Experiment 1

Pharmacopoeia Report Sheet

Section number:

Group number:

Referring to the USP:

1) From general notices, what is the meaning of:

Well closed container:

Tamper evident packaging:

Freezer:

Cool:

Controlled room temperature:

Dry place:

2) From general chapters, what is the title of <197> chapter?

- 3) From general chapters, List **2 names** of volumetric apparatus described along with their available volumes only.

| No. | Volumetric Apparatus | Available Volumes |
|-----|----------------------|-------------------|
| | | |
| | | |

- 4) From the Reagents section, how would you prepare an alkaline borate-buffer at **2 different** pHs of your choice?

| pH | Procedure of Preparation |
|----|--------------------------|
| | |
| | |

- 5) From the reference tables, determine the approximate solubilities of:

Caffeine(hydrous) in water _____
 Busulfan in acetone _____
 Ascorbic acid in water _____

- 6) From dietary supplements section, list **2 inorganic impurities** of Glutathione along with their limits.

| Inorganic Impurity | Limit |
|--------------------|-------|
| | |
| | |

- 7) From the national formulary, and relevant to Saccharin, fill the table below.

| Test | Limit (Acceptance Criteria) |
|--------------|-----------------------------|
| Heavy metals | |
| Assay | |

- 8) From the official monographs, fill the table below.

| Substance / Product | Test | Limit (Acceptance Criteria) |
|------------------------|--|-----------------------------|
| Clarithromycin tablets | Assay | |
| | Loss on drying | |
| | Packaging and storage | |
| | pH | |
| | Loss on drying | |
| Clavulanate Potassium | Organic impurities: - Total - Clavam-2-Carboxylate - Aliphatic Amines | |
| | Packaging and storage | |

Referring to the BP:

1) From general notices, what is the meaning of:

Freshly prepared:

Recently prepared:

2) From general notices, write down **3 different** solubility descriptive terms

3) What is the assay limit of Atenolol raw material and what are the limits of the following Atenolol related substances

Imp B: ----- Imp F: ----- Total impurities: ----- Assay: -----

4) Determine the following for Isotretinoin raw material.

Action & use:

Assay: -----

5) Determine the following for Thymol raw material.

Total impurities limit: ----- Residue on evaporation limit: -----

6) Determine the following for Captopril oral solution:

Storage: -----

Assay limit: ----- Captopril disulfide limit: -----

7) Determine the following for Zinc sulfate eye drops:

Definition: -----

Content: -----

