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Diploma in Pharmacy 1st Year

Pharmaceutics

Experiment

To formulate dusting powder

Aim:

To formulate dusting powder as per monograph standards and dispense with appropriate packaging and labelling.

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 65 – 68

Apparatus and Materials Required :

Purified talc, zinc oxide, starch, mortar pestle, and spatula.

Theory :

Dusting powders are typically fine powder mixes of two or more chemicals designed for external use. Starch has good binding and flow properties that allows the powder to flow readily, disperse evenly, and adhere to the skin when applied. Talc is a natural mineral that contains zinc oxide, which acts as a protective agent. Dusting powders are bulk powders that are used externally. They are very fine powders that are free flowing and contain antiseptics, antipruritics, astringents, antiperspirants, absorbents, lubricants, and other ingredients

Procedure :

- 1) The required quantity of purified talc and zinc oxide should be weighed
- 2) Zinc oxide should be mixed with starch and purified tale should be added.
- 3) Product should be mixed thoroughly and the mixed powder should be passed through a sieve no.120 for removing gritty particles.
- 4) The powder should be again mixed slightly after completely sieving it.
- 5) The powder should be packed to protect it from air, moisture and contamination.

Formulation

Ingredients	Required Quantity
Purified talc	1 gm
Starch	0.5 gm
Zinc oxide	0.5 gm

Labelling :

Labelling

Dusting Powder I.P. (10gm)			
R _x		Ingredient	Quantity
Brand Logo		Purified talc	1 gm
FOR EXTERNAL USE ONLY		Starch	0.5 gm
Mfg. date: 11/21	Exp. date: 11/24	Zinc oxide	0.5 gm
Lic. No.: ABFGH	Batch No: 00425	NO SIDE EFFECTS	
Storage: Store at temperature between 40°F & 85°F			

Packaging and Storage :

- The powder should be dispensed in sifter-top cans or pressurised packs (ferosols). Aerosols protect the powder from air, moisture and contamination and more convenient for application.
- A storage area for the powder should be kept between 40°F and 85 F and the temperatures can even reach 90°F or 95°F without causing a problem. However, many powders will not fluidise or spray correctly if they are stored at 100°F.

Result :

The dusting powder was prepared, packaged and labelled.

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