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# Diploma in Pharmacy 1<sup>st</sup> Year

## Pharmaceutics

### Experiment

To prepare 50g of cold cream.

#### Aim:

To prepare 50g of cold cream.

#### Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’  
“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page  
no 86 - 90

#### Requirment :

Cetyl ester wax, white wax, mineral oil, sodium borate, purified water.

#### Theory :

The term cream in pharmacy and medicine is applied to viscous emulsions or semisolid preparations consisting of solutions or dispersions of one or more medicaments in suitable base and intended for application to the skin or mucus membrane. They are applied to the skin for protective, beautifying, therapeutic or prophylactic purposes. Creams may contain suitable antimicrobial or preservatives unless the medicaments or basis have sufficient intrinsic bactericidal and fungicidal activity.

Cold cream is a water-in-oil emulsion. It is useful as an emollient, cleansing cream and ointment base. It resembles rose water ointment differing only in that mineral oil is used in place of almond oil and omitting the fragrance. This change produces an ointment base which is not subjected to rancidity like one containing a vegetable oil.

**Category :** Emollient and cleansing cream.

**Uses :** It is used as a cleansing cream.

## Formulation Table for Cold Cream

Ingredient	Quantity required for 100 g	Quantity required for 50g
Cetyl ester wax	12.5 g	6.25 g
White Wax	12.0 g	6.0 g
Mineral Oil	56.0 ml	28.0 ml
Sodium Borate	0.5 g	0.25 g
Purified Water	19.0 ml	9.50ml

### Calculation

Cetyl ester wax required to prepare 100 g of cream = 12.5 g

So, for preparation of, 50g of cream,

Cetyl ester wax required =  $12.5/100 \times 50 = 6.25$  g

White wax required to prepare 100 g of cream = 12.0 g

So, for preparation of 50 g of cream,

White wax required =  $12.0/100 \times 50 = 6.0$  g

Mineral oil required to prepare 100 g of cream = 56.0 ml

So, for preparation of 50 g of cream,

Mineral oil required =  $56.0/100 \times 50 = 28.0$  ml

Sodium borate required to prepare 100 g of cream = 0.5 g

So, for preparation of 50 g of cream,

Sodium borate required =  $0.5/100 \times 50 = 0.25$  g

**Procedure :** Reduce size of cetyl ester wax and white wax in small pieces. Melt them on a steam bath with the mineral oil and continue heating until the temperature of the mixture reaches 70°C (A). Dissolve the sodium borate in purified water and heat at 70°C in separate flask (B). Gradually add aqueous solution (B) to the mixture of oily phase (A) with continuous and rapid stirring until it has congealed.

**Storage :** Preserve in a well-closed container

## Label :

<b>Ingredients</b> Cetyl ester wax : 6.25 g White Wax : 6.0 g Mineral Oil : 23 ml Sodium Borate : 0.25 g Purified : 9.5 ml	<b>Cold Cream</b>	<b>Disclaimer</b> keep away from children Use before Expire date	Batch No : Price : Mfg. Date : Exp. Date :  Prepared by :
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## Result :

It was found that 50 g of Cold Cream was successfully prepared and submitted.

  
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