

# Preparation of Cosmetic Body Lotion

Experiment 23 - Practical Notes

Name: \_\_\_\_\_ Roll no.: \_\_\_\_\_ Date: \_\_\_\_\_

## Aim

To prepare, evaluate, package and label a cosmetic body lotion.

## Principle

An emulsion spreads oil and humectant over skin in a pourable vehicle.

## Working Formula

Use the assigned current monograph for ingredient grades, amounts and specifications. Enter the working quantities before starting.

| Ingredient     | Purpose            | Working quantity |
|----------------|--------------------|------------------|
| Assigned oil   | Emollient          | _____            |
| Emulsifier     | Stability          | _____            |
| Humectant      | Moisture retention | _____            |
| Purified water | Vehicle            | _____            |

Scaling factor = required batch size / master batch size. Working ingredient amount = master amount × scaling factor.

## Requirements

- Assigned master formula and ingredients
- Balance, measuring glassware and suitable mixing equipment
- Appropriate clean container and label

## Procedure

### 1. Read the formula

Record the assigned cosmetic formula, batch size and ingredient grade.

### 2. Prepare

Prepare both phases, emulsify, cool with stirring and adjust to the assigned final mass.

### 3. Complete

Add any heat-sensitive ingredients at the assigned stage and bring to final mass.

### 4. Evaluate

Inspect texture, separation, pH where assigned and spreading or pouring behaviour.

### 5. Package and label

Use a suitable training container and record the composition and external route.

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### Evaluation and Label

- Record the appearance, consistency, phase stability, assigned pH and final yield.
- Label the name, strength where relevant, route, batch/date, storage and institution-assigned use period. Mark laboratory preparations as training material.

### Observations and Record

| Check                     | Observation |
|---------------------------|-------------|
| Appearance / consistency  | _____       |
| Final mass or volume      | _____       |
| pH or other assigned test | _____       |
| Packaging / label check   | _____       |

### Worked Example

The numbers below are illustrative; enter your own observations in the record.

- For a 25-unit batch from a 100-unit master formula, multiply every ingredient quantity by 0.25.
- Enter the actual final yield and compare it with the target batch size.

### Result

The training preparation was obtained as \_\_\_\_\_. Final yield: \_\_\_\_\_. Assigned quality checks: \_\_\_\_\_. It was packaged and labelled for the intended route.

### Precautions

- A pleasant appearance does not establish skin compatibility or preservative effectiveness.
- Avoid strong fragrance or sensitising additions outside the assigned formula.
- Label as a training preparation.

### Viva Questions and Answers

#### 1. Why scale every ingredient?

The proportions must remain constant when batch size changes.

#### 2. Why record the method?

Mixing order, temperature and technique affect the product.

#### 3. Which quality checks are needed?

Record the appearance, consistency, phase stability, assigned pH and final yield.

#### 4. Why is a label required?

It identifies the product, route, directions, storage and the training batch.

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