

Practice 12.4.

Hydrophilic Ointment (USP 27 – NF 22)
Unguentum Hydrophilicum

White petrolatum	25.000 g
Stearyl alcohol	25.000 g
Propylene glycol	12.000 g
Sodium lauryl sulfate	1.000 g
Methylparaben	0.025 g
Propylparaben	0.015 g
Purified water	37.000 g

Melt the stearyl alcohol and white petrolatum using a water bath and add propylparaben for preparing the oil phase. Mix it homogenously and warm to about 70-72°C. For the water phase, dissolve methylparaben, sodium lauryl sulfate and propylene glycol into the purified water and warm to about 70-72°C. Add water phase onto the oil phase and stir the mixture until it congeals.

Questions:

1. For what purpose is this ointment used?
2. Write the intended purpose of each ingredients in this ointment.
3. Write the emulsion type of this formulation.
4. What are the properties of hydrophilic ointment in terms of physical stability?

Practice 12.5.

Glycerin Ointment
Unguentum Glycerini

Wheat starch	7 g
Glycerine	93 g
Purified water	7 g

The starch is thoroughly mixed with water with a glass rod in a porcelain dish. Add glycerin and stir again. Continue mixing on very light flame until it becomes semi-transparent and its weight decreases to 100 grams

NOTE: For the calculation total amount is 100 g.

Questions:

1. Which type of ointment base is this, for what purposes are they used?
2. Why is starch mixed with water first?