

Lesson 6.

Topic of the lesson: Determination of the quality of medicinal plant raw materials according to some numerical indicators (moisture, ash)

Aims: To determine the moisture content of the medicinal plant material. Determine the ash in the medicinal plant material.

Work 1. Determining the moisture content of medicinal plant of the morphological group "Leaves".

Study the methodology for determining moisture in medicinal raw materials.

Take a sample of the raw material from the teacher for analysis.

Carry out the moisture determination and calculate the percentage of the raw material to be analyzed.

Compare the obtained result with the data in the pharmacopoeia for investigated medicinal plant material. Write a conclusion.

Write down the results of the study in the form of a protocol.

Study the methodology for determining moisture in medicinal raw materials.

Work 2. Determining the moisture content of medicinal plant of the morphological group "Underground organs".

Study the methodology for determining moisture in medicinal raw materials.

Take a sample of the raw material from the teacher for analysis.

Carry out the moisture determination and calculate the percentage of the raw material to be analyzed.

Compare the obtained result with the data in the pharmacopoeia for investigated medicinal plant material. Write a conclusion.

Write down the results of the study in the form of a protocol.

Study the methodology for determining moisture in medicinal raw

materials.

Work 3. Determining the ash of medicinal plant of the morphological group.

Study the methodology for determining moisture in medicinal herbal raw materials.

Take a sample of the raw material from the teacher for analysis.

Carry out the moisture determination and calculate the percentage of the raw material to be analyzed.

Compare the obtained result with the data in the pharmacopoeia for investigated medicinal plant material. Write a conclusion.

Write down the results of the study in the form of a protocol.

Study the methodology for determining moisture in medicinal raw materials.

Protocol of analysis of medicinal raw materials

Date _____

Medicinal raw material Eng/Lat _____

Medicinal plant Eng/Lat _____

Family Eng/Lat _____

Determination of moisture:

Regulatory moisture content:

Calculations:

Determination of total ash:

Total ash value according to normative documentation:

Calculations

Determination of ash insoluble in 10% hydrochloric acid:

Ash insoluble in 10% hydrochloric acid value according to normative documentation:

Calculations:

Conclusion: _____
