

## SAPONINS

1. Give the definition of the term “Triterpenoids”, “Saponins”, “Sapogenins”, “Steroids”, “Foaming index”.
2. Classification of saponins with examples of structures.
3. Physical and chemical properties of saponins.
4. Identification of saponins based on their physical, biological and chemical properties (reagent used – result obtained).
5. Quantitative analysis of saponins – methods and their descriptions.
6. Biological properties of saponins.
7. Structures of saponins:  $\alpha$ -amyirin,  $\beta$ -amyirin, lupeol, friedelin, dammarane, cycloartane, panaxadiol, panaxatriol, calendulosides, glycyrrhizinic acid, glycyrrhetic acid, aescin, diosgenin, cholesterol, cyclopentane perhydro phenanthrene.
8. Medicinal plants, plant material and families: Ginseng, Spikenard, Locoweed, Marigold, Horse Chestnut, Licorice, Jacob’s Ladder, Ivy, Soapwort, Java Tea, Gotu Kola, Black Cohosh, Seneca Snakeroot, Yam, Fenugreek, Sarsaparilla, Saw Palmetto, Yucca, Agava, Butcher’s Broom.