**Physicochemical and Biochemical Characterization of**

***Olea Europea Var.Oleaster* Oil and Determination of itsEffects on Blood Parameters.**

**Abstract**

 This present study has allowed to evaluate the physicochemical characteristics, fatty acid composition and the hypolipidemic effect of Oleaster oil Olea europea var. Oleaster, from the area of El Kala, "eastern Algeria" on rats "Wistar albinos". The physicochemical characteristics: acidity (0, 73%), peroxide value (14, 16 meqO2/kg oil) and iodine value (74, 08 g iodine / 100 g of oil) are consistent with international standards. The dosage of FA revealed a wealth of oil with UFA (76, 7%), mainly composed of 65.43% of MUFA whose major fatty acid is oleic acid (63, 57%). The experiment on rats receiving a diet rich in saturated fats and hydrogenated oils revealed that the consumption of Oleaster oil at the dose of 10g and 20g for 15 and 30 days improves plasma lipid profile by decreasing the rates of TC, TG, TL and LDL-C with an increase in the rate of HDL-C serum. The importance of these effects depends on the dose and period of treatment.

**Keywords:** Oleaster oil, fatty acid, *olea europea,* oleic acid, lipid profile

**I. Reading comprehension**

1. **The type of text is:**
2. Narrative
3. Descriptive
4. Argumentative
5. **Answer the questions according to the text**
6. What are the components of virgin vegetable oil?
7. How did The fruits of Oleaster (***Olea europea***) were picked ?
8. What is the objective of this study ?
9. **Are these statements true or false?**
10. The Oleaster gives particular oil used in pharmacology.
11. The physicochemical analysis of the oil shows that the acidity and peroxide values are in the standards in all oils.
12. The oleaster oil is widely used in Algeria.

***II.* Mastery of Language**

1. Give the synonym of: lipid = noticeable =
2. Give the antonym of: collective ≠ alternative ≠
3. Make the verb between brackets into the correct form

The rats ( to divide) into 8 groups of 8 rats per cage; each group (to receive) a specific diet for two periods, 15 and 30 days.

1. Fill in the table below

|  |  |  |
| --- | --- | --- |
| Noun  | Verb  | Adjective  |
|  | To secure  |  |
|  | To read  |  |
| Fulfillment  |  |  |

**III. Production**

In a paragraph form, write about the traditional uses of olive oil in our country.