



«BIOLER» LLP
Scientific & Manufacturing Enterprise

FOOD, FEED, PHARM. PHOSPHOLIPIDS. SUNFLOWER PHOSPHOLIPIDS TECHNOLOGY

QUALITY CERTIFICATE

50% solution of sunflower phosphatidylcholine in ethanol (ethyl alcohol) corresponds to the following characteristics:
TUU 15.8-02128514-021:2008

| Name of the examination by TUU 15.8-02128514-021:2008 | Character and standard |
|---|---|
| Outward appearance, color, smell | Henna-red solution with the smell of ethyl alcohol. During the temperature pulldown the dimness of the solution and precipitation are possible. They disappear at temperature increasing. |
| Coloration 1% solution, n/m | 10.0 |
| Phosphorus content, mg/cm ³ , n/l | 12.0 |
| Chromatography data | One basic spot. Trace impurities not more than of 3 other lipids are permitted. |
| Concentration of phosphatidylcholine in solution, % mass ± 10 | 50.0 |
| Concentration of ethyl alcohol, % mass ± 10 | 50.0 |

The product corresponds of requirements of TUU 15.8-02128514-021:2008.

Guarantee term of keeping: 12 months after production at the temperature 0÷4°C.
2 month at temperature before 20°C.

Deputy Director on Research

Dr Andrey Glukh