



«BIOLER» LLP
Scientific & Manufacturing Enterprise

FOOD, FEED, PHARM. PHOSPHOLIPIDS. SUNFLOWER PHOSPHOLIPIDS TECHNOLOGY

QUALITY CERTIFICATE

50% solution of sunflower phosphatidylcholine in isopropanol 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	Yellow-brown solution with the smell of isopropanol 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 isopropanol 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