



ATLAS LAB
Setting the standard

EDIBLE OIL TESTING BROCHURE

www.atlaslab.in



Edible Oil Analysis

Edible Oil is used and consumed by households, institutions and industries all over the world. It can be said the back bone of cooking is oil. Vegetable Oils come in a vast variety with different colours, flavours and blends. They are used for cooking, manufacturing of soap and detergents, production of biodiesel, used as fuel in lamps, pet food and animal feed, cosmetics, as massage oil, as dressing in salads, skin products, candles and paints.

Atlas Lab provides a comprehensive state-of-the-art Edible Oil Testing Program. By conducting the testing and analysis of Edible Oil samples we can evaluate their quality, quality confirmation, blending evaluation, ensuring the right blend vis a vis blend is supplied, to ensure there is no contamination, confirm and validate if the Edible Oil meets the technical and environmental requirements of national and international standards. Tests for Edible Oil are carried out as per FSSAI / PFA / BIS

Benefits of Edible Oil Testing

1. To ensure that the Edible Oil is safe for consumption and there is no trace of contamination, adulteration or acidity
2. To ensure that the Edible Oil conforms with the national and international standards like FSSAI and other governing bodies
3. To Determine the Shelf Life of the Edible Oil to establish the consumption period or the 'Best Before' date which helps maintain the quality of the final product
4. Edible Oils play a huge part in our nutrition, providing our bodies with nutrients and the essential unsaturated fatty acids, which can be determined through testing



Standard Tests conducted for Edible Oil :

Standard Tests

| | | |
|------------------------------|------------------------------|---------------------------------|
| Appearance | B. R. Reading @ 40°C | Free Fatty Acid (as Oleic acid) |
| Moisture | Saponification Value | Acid Value |
| Colour in 1" cell (Lovibond) | Specific gravity @ 30°C/30°C | Unsaponifiable Matter |
| Refractive Index @ 40°C | Iodine Value (Wij's) | Peroxide Value |
| Smoke Point | Ash | |

Nutritional Facts

| | | |
|-----------------------------|-------------------------------|-------------------------------|
| Castor Oil (Molybdate Test) | Mineral Oil (Holde Test) | Bellier Test (Turbidity temp) |
| Sesame Oil (Baudouin Test) | Argemone Oil | acetic acid method) |
| | Cottonseed Oil (Halphen Test) | GLC |

Purity Tests

| | | |
|-----------------|----------------------------------|---------------------|
| Nutrition Facts | Polysaturated Fatty Acids (PUFA) | Sodium |
| Calories | Monosaturated Fatty Acids (MUFA) | Total Carbohydrates |
| Total Fat | Trans Fatz | Protein |
| Saturated Fat | Cholesterol | Vitamin A |
| Vitamin C | | |

Shelf Life

| | | |
|---------------------|---------------------------|---------|
| Moisture (%) | Water Activity | Colour |
| TBA | Total Plate Count (CFU/g) | Texture |
| Free Fatty Acid (%) | Yeast and Mould (CFU/g) | Taste |

Microbiological

| | | |
|-----------------------|------------------|--------|
| Total yeast & mold | Salmonella | E.coli |
| Staphylococcus Aureus | Total plat count | |

Our chemists, scientists and researchers have in depth knowledge and have understanding the quality and the composition of the oil. Our testing process is accurate, timely, precise and affordable. Our team handles each sample and your testing and analysis needs with accurate and service-oriented approach, ensuring you get the results you need in your respective market and industry.

About Atlas Lab

Atlas Lab is a industry leading Testing, Inspection and Certification Company duly accredited by NABL and Certified by ISO 17025. We believe in putting the customer first by constantly innovating and evolving to provide reliable and consistent solutions. We are a team of dynamic, passionate professionals with strong technical expertise in the realm of Lubricating Oils and Petroleum products serving industries of all sizes on a global scale.

We are approved and accredited by



ISO / IEC 17025 : 2017



Certificate No. IND.20.6148/QM/U



TC - 6087



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approved
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