Kemin is…*Your Technical Expert*

OXIDATION TESTING

METHODS OF OXIDATION TESTING

Stress Measurement of Induction Point

- Oxidative Stability Instrument (OSI)/Rancimat
- Oxygen Bomb Test

Accelerated Temperature Storage Stability

Ambient Temperature Storage Stability

METHODS OF ANALYSIS

Instrumental Measurement

Primary Oxidative By-Products

- Peroxide values

Secondary Oxidative By-Products

- p-anisidine
- TBARS
- Hexanals,
  2,4 Decadienals
- Alkenals
- Polar compounds

Active Component Analyses

- HPLC
- GC

Near Infrared (NIR) Spectroscopy

- DPTG
- Total polar compounds
- Anisidine value
- Acid value

Colour Evolution

- Photos
- Hunter Colorimeter

Sensory Evolution

Colour, Taste, Odour

- Triangle test
- Descriptive analysis
- Preference tests

Kemin's Customer Laboratory Services (CLS) team uses their technical expertise and problem solving skills to uncover the source of a problem and develop a tailored solution. The CLS team provides dedicated support throughout all phases of testing to understand the influences of all food ingredients on the stability of your final product to keep it safe and fresh.

Our research scientists evaluate the oxidative and microbial stability of your food products using a combination of analytical techniques and accelerated oxidation tests. We work with you to determine your desired project objectives and the best protocol to provide you with customised shelf life solutions.

MICROBIAL TESTING

METHODS OF MICROBIAL SPOILAGE TESTING

Non-Inoculated studies

- Measurement of microbial loads in foods

Challenge Studies

- Inoculation with pathogens/
  non pathogens to follow inhibition

METHODS OF ANALYSIS

Disk Diffusion/Microtiter Plates

Aerobic Plate Counts

Yeast and Mould Counts

Visual Mould Evaluation

CO_2 Production

Moisture

Water Activity

Environmental Monitoring pH

Maximise ingredient efficiency in your product by:

- Determining the most effective treatment
- Identifying the correct inclusion rate
- Establishing the most effective point of application

KEMIN®

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