



## High Quality – from Source to Final Product

Our Refined Sesame Oil IV-1 is a highly purified sesame oil fully compliant with the **European Pharmacopoeia (0433) and United States Pharmacopoeia/National Formulary (USP/NF) monographs and general notices** intended for use in the manufacturing of pharmaceutical products.



## Unmatched Quality for Use as Excipient in Formulation of Lipophilic Drugs

REFINED SESAME OIL IV-1 CAN BE USED IN HUMAN AND VETERINARY APPLICATIONS SUCH AS:



injectables



syrup



softgels



## Full Compliance with the Most Demanding Regulations

**Manufactured under cGMP according to the Joint IPEC-PQG Good Manufacturing Practice Guidance for Pharmaceutical Excipients.**

A 5-step purification process is applied to the starting material (refined sesame oil) to deliver a high-quality purified oil. Final steps of the process, including **fine filtration and drum filling under nitrogen, are performed in an ISO 8 class cleanroom.**

**Supported with Drug Master File (DMF) type IV** for excipients submitted to the U.S. Food and Drug Administration (FDA). (DMF # 031 697)



Compliant  
with EP & USP  
requirements

Manufactured  
under cGMP  
according to IPEC  
guidelines

Supported  
with DMF  
type IV



## Process Control for High-Quality Pharmaceutical Ingredients

The precise control of our refining process enables us to guarantee the best **batch-to-batch consistency**.

## BATCH-TO-BATCH CONSISTENCY

As with many plant-based excipients, source variability could be a concern. Therefore, we manage the variability of our Sesame Oil IV-1 by closely working with source suppliers. Our 5-step purification process guarantees high quality and consistency of the final product for your formulations, from topical to intravenous applications.

## MANUFACTURING PROCESS CONTROL

- Specific sourcing & control of the starting material
- Adjustment of purification process parameters
- Real-time process monitoring
- In-process control tests
- Out-of-trend monitoring

## MANAGEMENT OF CONTAMINANTS & NATURAL IMPURITIES

- Control of bacterial endotoxins
- Elemental impurities according to ICH Q3D
- Residual solvents: compliance with ICH Q3C and EP 5.4 requirements
- Absence of TSE/BSE risk

## HIGH STABILITY GUARANTEE

Stability studies performed according to the International Conference on Harmonization (ICH) Q1A Quality Guideline show that **Refined Sesame Oil IV-1 is perfectly stable over a 36-month shelf life period.**



## Insight on Regulatory Evolution

Over the last several years, there has been an increasing focus on securing the quality and safety of excipients and today, **excipients are a top priority among regulatory agencies like the International Pharmaceutical Excipients Council (IPEC) and the United States Pharmacopeia (USP)**. The pharmaceutical manufacturers are required to assess the GMP compliance of their excipient suppliers to satisfy the outcome of the formalized risk assessment. At ADM-SIO, we are at the forefront of regulatory monitoring and we offer best-in-class solutions for excipients that have been classified as critical.



ADM-SIO's Refined Sesame Oil IV-1 is available in 56,5 Kg or 200 Kg tight-head metal drums that are filled under nitrogen in an ISO 8-classified cleanroom.

### ADM DELIVERS FOR YOU

With more than a century of experience, dedicated production lines and specialized R&D and Regulatory teams, ADM-SIO offers its customers innovative global solutions tailored to the specific challenges of the Pharmaceutical industry. At ADM-SIO, we offer an extensive range of highly purified oils, derived from vegetable origins that meet major relevant pharmaceutical regulations and are manufactured according to cGMP standards. We make delivering compliance and consistency a reality, giving you an edge to innovate with confidence.

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