FREY&LAU
explore your senses

PRODUCT LIST
Essential Oils as Excipients



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Excipients at FREY&LAU

Pharmaceutical quality, safety, and expertise from a single source

The following essential oils are now available in our excipient range:

Product	Specification	Art.-No.
Bergamot oil	F+L specification	P0112136
Cajeput oil	F+L specification	P0140149
Caraway oil	Ph.Eur. Monograph	P0140148
Cardamom oil	F+L Specification	P0107694
Chamomile oil, blue	Ph.Eur. Monograph	P0131176
Cinnamon bark oil	Ph.Eur. Monograph	P0123245
Citronella oil	Ph.Eur. Monograph	P0124068
Geranium oil	F+L Specification	P0114231
Lemon oil	Ph.Eur. Monograph	P0131177
Mandarin oil	Ph.Eur. Monograph	P0124618
Nutmeg oil	Ph.Eur. Monograph	P0126382
Orange oil	Ph.Eur. Monograph	P0106656
Sage oil, Dalmatian	F+L Specification	P0124650
Spearmint oil, American	F+L Specification	P0126272
Spearmint oil, Chinese	F+L Specification	P0140042





Furthermore, the essential oils and aroma chemicals from our EGST product line can also be used as excipients:

Product	Art.-No.
Camphor	S0404128; S0404168
Cassia oil, rect.	P0130192
1,8-Cineole	S0100795; P0126711
Eucalyptus oil	S0100793; S0100794; P0140038
Fennel oil, rect.	P0140032
Spruce needle oil, rect.	P0126795
Pine needle oil, rect.	P0126802
Dwarf pine oil, rect.	P0126818
Lavender oil, rect.	P0140033
Menthol	S0100796
Methyl salicylate	S0404581
Mint oil, rect.	S0100785; P0126711
Clove oil, rect.	P0126819
Peppermint oil, rect.	S0100797; P0126801
Rosemary oil, rect.	P0140034
Sage oil, Spanish, rect.	P0140145
Spike lavender oil, rect.	P0129692
Star anise oil, rect.	P0140037
Tea tree oil, rect.	P0140050; P0140135



We offer the following for products in the excipient line:

Quality control

- Residual impurities (essential oils): heavy metals according to Ph. Eur. 2.2.58; Pesticide residues according to Ph. Eur. 2.8.13, aflatoxins according to Ph. Eur. 2.8.18, and microbiological quality according to Ph. Eur. 2.6.12, 2.6.13, and 2.6.31: based on a risk analysis at least once a year.
- Specification: Monograph, where available
  Where no monograph exists, a qualified specification including GC profile
- Processes complying with GMP and FSSC
- Qualification of equipment complying with GMP and FSSC
- Maintenance of equipment complying with GMP and FSSC
- For non-pharmacopoeia methods:
  - » Validation of the basic GC method in accordance with pharmaceutical regulations
  - » Validation of the GC method for the individual oil; creation of quantitative detection methods: on request

Stability studies according to ICH: on request

Traceability

- Complying with food law requirements
- Development of GACP supply chain: on request



Production

- Complying with food law requirements
- Regular monitoring by food inspection authorities
- Annual certification audit (FSSC 22000)

Qualification

- Third-party audits: annual certification audits (FSSC)

Documentation

- Depending on application: in accordance with food or cosmetics law
- Support for registration dossiers: on request

EGST product line

- Products from this product line are manufactured under GMP for active pharmaceutical ingredients (GMP II guidelines)
- They are listed on our GMP certificate
- They comply with the requirements of GMP II in all aspects





FREY&LAU

FREY + LAU GmbH • Immenhacken 12
24558 Henstedt-Ulzburg • Germany
T +49 (0) 4193 99 53 • info@freylau.com

freylau.com

Status: 10/2025