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CERTIFICATE OF ANALYSIS

SUBSTANCE IDENTIFICATION

Name: DILL SEED OIL (Anethum graveolens)
INCI: Anethum graveolens Seed Oil
CAS Nr.: 90028-03-8/8006-75-5
EINECS Nr.: 289-790-8
Batch: R02759
Production date: 06/2022
Expiration date: 06/2026
Specification: Internal

GENERAL CHARACTERISTICS

Type of product: 100% Natural essential oil
Quality: Conventional product
Botanical name: Anethum graveolens
Type of production: Water steam distillation
Plant part: Seeds
Country of origin: Bulgaria

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Pale yellow liquid	Complies
Odor	Characteristic	Complies

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Specific density (20°C)	0.890-0.915	0.900
Refractive index (20°C)	1.483-1.490	1.485
Optical rotation (20°C)	(+)70.0° - (+)82.0°	+76.6°

PURITY

Parameter	Parameter	Result
Fatty acids and resinified essential oils	Not present	Complies
Additives	Not present	Complies

CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
Limonene	35.0-68.0 %	47.3 %
Carvone	27.0-53.0 %	43.1 %
Dihydrocarvone		2.2 %

PACKAGING AND STORAGE

Parameter	Requirements
Standard packaging	ALU, HDPE
Storage	In tight closed and full containers, at cool, dry and well ventilated place below 25°C
Reanalysis	When opened for more than 24 months quality should be checked before use

ASSESSMENT

Quality conforms to the specification.