

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Diethyltoluamide (DEET)
C.A.S. Number	134-62-3
Molecular Formula	—
Molecular Weight	—
Grade / Standard	≥95% Technical
Physical Form	Pale yellow liquid
Product Category	Personal Care & Cosmetic Ingredients
Country of Origin	India

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Pale yellow liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 95.0 % w/w	96.22	Titrimetry / Instrumental
4	pH (10 % solution)	As per specification	5.3	Potentiometry
5	Refractive Index at 25 °C	As per specification	Conforms	Refractometry
6	Loss on Drying	Not more than 1.0 % w/w	0.45	Gravimetry
7	Residue on Ignition	Not more than 0.2 % w/w	0.064	Gravimetry
8	Lead (Pb)	Not more than 10 ppm	Less than 2 ppm	ICP-MS
9	Arsenic (As)	Not more than 3 ppm	Less than 0.5 ppm	ICP-MS
10	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
11	Total Aerobic Microbial Count	Not more than 1000 cfu/g	102 cfu/g	IP / USP <61>
12	Total Yeast & Mould Count	Not more than 100 cfu/g	21 cfu/g	IP / USP <61>
13	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
14	Salmonella species	Absent in 10 g	Absent	IP / USP <62>
15	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal

Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.