CERTIFICATE OF ANALYSIS

(Certificate No. KML037024-01)

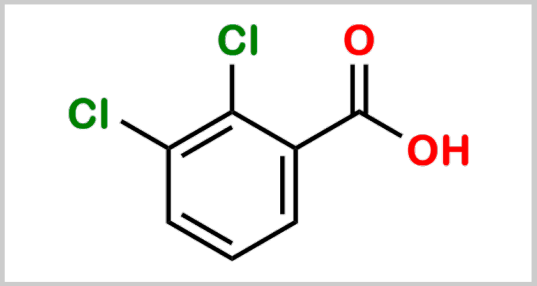
Release Date: 24/02/2025 **Re-test Date:** 23/02/2028

Lamotrigine Impurity E

Identification

Chemical Name :
2,3-Dichlorobenzoic acid

Alt. Name	: Lamotrigine USP Related Compound B
CAT No.	: KML037024
CAS No.	: 50-45-3
Molecular Formula	: C7H4Cl2O2
Molecular Weight	: 191.0



Analytical Information

Batch No.	: LAM-EP-IMP-E-030-049	**Solubility**	: Acetonitrile
Description	: White Solid	**Mass**	: Confirm
HPLC Purity	: 99.48 %	**IR**	: Confirm
Weight Loss By TGA	: 0.84 %	**1H NMR**	: Confirm
% Potency	: 98.64 %	**13C NMR**	: Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.84(Weight Loss By TGA)] x [99.48(HPLC Purity)]/100 = 98.64 %
-Re-tested on 24.02.2025
-HPLC Purity corrected on 13.03.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		13/03/2025
Reviewed & Approved By	Quality Control	Jatin Patel		13/03/2025

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA