CERTIFICATE OF ANALYSIS

(Certificate No. KMC204017-01)

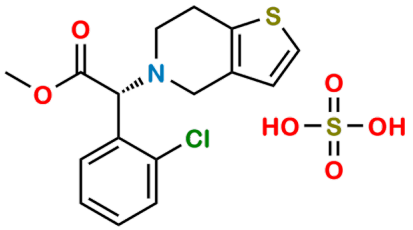
Release Date: 10/03/2025 **Re-test Date:** 09/03/2028

Clopidogrel Bisulphate Impurity C

Identification

Chemical Name :
Methyl (-)-(R)-(o-chlorophenyl)[6,7-dihydrothieno[3,2-c]pyridine-5(4H)-yl]acetate hydrogen sulfate ;

Alt. Name	: Clopidogrel USP Related Compound C ; Clopidogrel Bisulfate R-Isomer
CAT No.	: KMC204017
CAS No.	: 120202-71-3
Molecular Formula	: C16H16ClNO2S : H2O4S
Molecular Weight	: 321.8 : 98.1



Analytical Information

Batch No.	: CLP-C-22	**Solubility**	: Methanol
Description	: Off White Solid	**Mass**	: Confirm
HPLC Purity	: 95.70 %	**IR**	: Confirm
Weight Loss By TGA	: 1.45 %	**1H NMR**	: Confirm
% Potency	: 94.31 %	**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 - 1.45(Weight Loss By TGA)] x [95.70(HPLC Purity)]/100 = 94.31 %
-13C NMR Analysis added on 28.02.2025
-Re-tested on 10.03.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		10/03/2025
Reviewed & Approved By	Quality Control	Jatin Patel		10/03/2025

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