



TLC PHARMACEUTICAL STANDARDS

Certificate of Analysis

Certificate No.: 20250910013



OFFICIAL
QA COPY

Date: September 10, 2025

Retest date: September 10, 2028

Compound Name: Policrosulen Impurity 5 Ammonium Salt (<i>m</i> -Cresol-4-Sulfonic Acid Ammonium Salt)	
Synonyms:	4-hydroxy-2-methylbenzenesulfonate, ammonium salt (1:1)
TLC Catalogue Number:	P-568
CAS Number:	N/A
Alternate CAS Number:	7134-05-6 (free acid)
Molecular Weight:	187.19 18.04
Molecular Formula:	C ₇ H ₇ O ₄ S. NH ₄
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4145-080A2
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Water

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.4%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		09/10/2025
Approved by:	Quality Assurance		09/10/2025

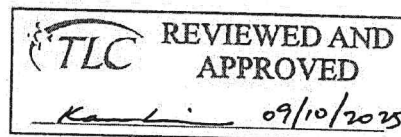
Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.



TLC PHARMACEUTICAL STANDARDS

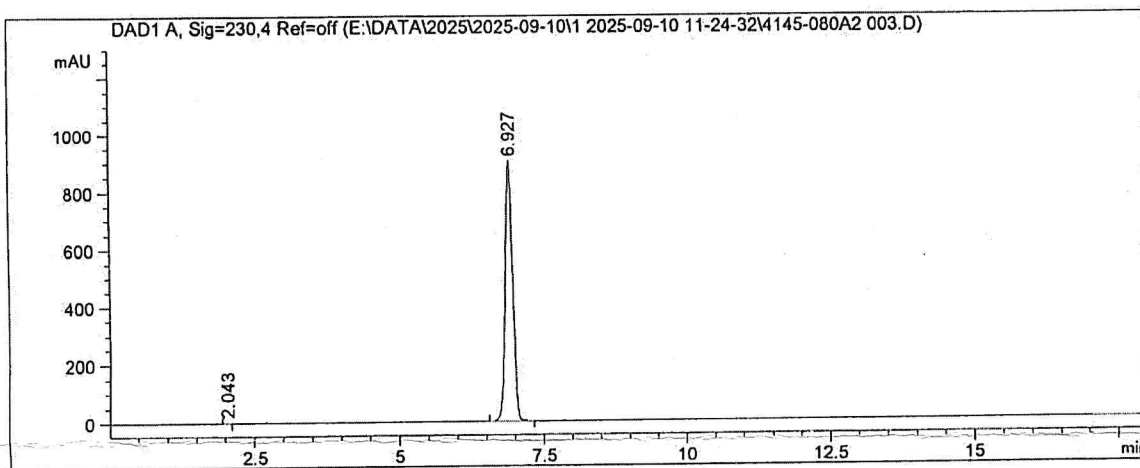
IR, MS and NMR Peak Attribution Table lot 4145-080A2

FT-IR	Experimental condition and equipment identification	KBr Thermo Scientific Nicolet iS5
	Description of absorption bands and conclusion	3196.88 cm ⁻¹ -OH 1583.49 cm ⁻¹ C=C Complies.
¹ H NMR	Experimental condition and equipment identification	¹ H NMR Bruker NMR-400 MHz Solvent: DMSO-d ₆
	Identification and description of all peaks and correlation with respective protons from the structure of molecule and conclusion	δ 9.33 (br, 1H), 7.51 (d, 1H), 7.09 (br, 4H), 6.50+6.44 (d+dd, 2H), 2.42 (s, 3H). Complies.
Mass spectrometry	Experimental condition and equipment identification	ESI Agilent 1260-G6130B
	Identification and characterization of main peak(s) which identify the molecule and conclusion	m/z: 187.1, corresponding to [C ₇ H ₇ O ₄ S] ⁻ Complies.



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Acq. Operator	: Zhixian Ji	Seq. Line	: 3
Acq. Instrument	: LC-1260_6	Location	: 32
Injection Date	: 9/10/2025 12:36:53 PM	Inj	: 1
		Inj Volume	: 1.200 µl
Acq. Method	: E:\DATA\2025\2025-09-10\1 2025-09-10 11-24-32\3.M		
Last changed	: 9/10/2025 12:33:10 PM by Zhixian Ji (modified after loading)		
Analysis Method	: C:\CHEM32\3\METHODS\1.M		
Last changed	: 9/10/2025 1:08:32 PM by Zhixian Ji (modified after loading)		
Sample Info	: C1097 ZORBAX SB-Aq (4.6*250mm,5µm); F=1.0mL/min; T=30 degree; CH3OH/0.1% Octylamine+0.05% CH3COOH=35/65 ~1.0mg in 0.5mL CH3OH		



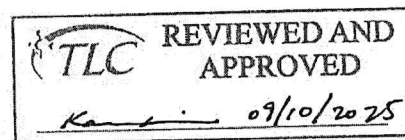
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Area Percent Report
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Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=230,4 Ref=off

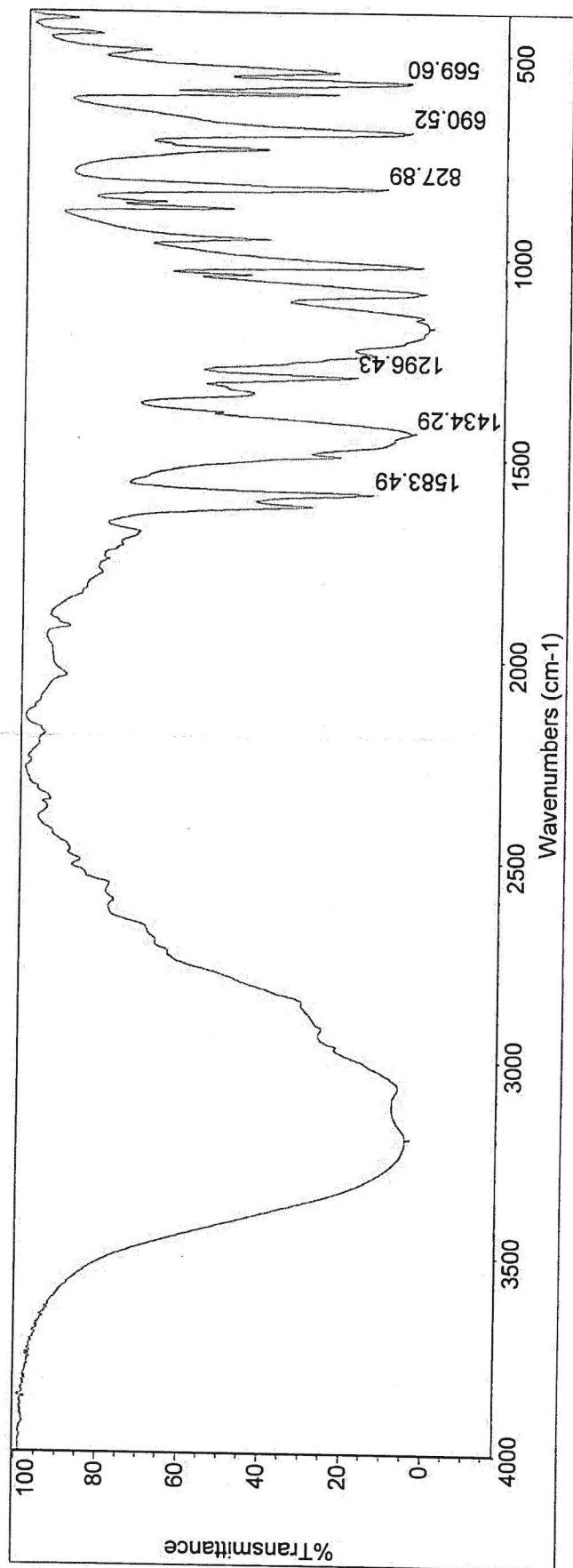
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.043	BB	0.0503	1.23312	3.75946e-1	0.0152
2	6.927	BBA	0.1416	8114.32373	896.59460	99.9848

Totals : 8115.55685 896.97055



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*** End of Report ***

4145-080A2



Collection time: Tue Apr 27 14:48:14 2021 (GMT+08:00)

Tue Apr 27 14:50:27 2021 (GMT+08:00)

FIND PEAKS:

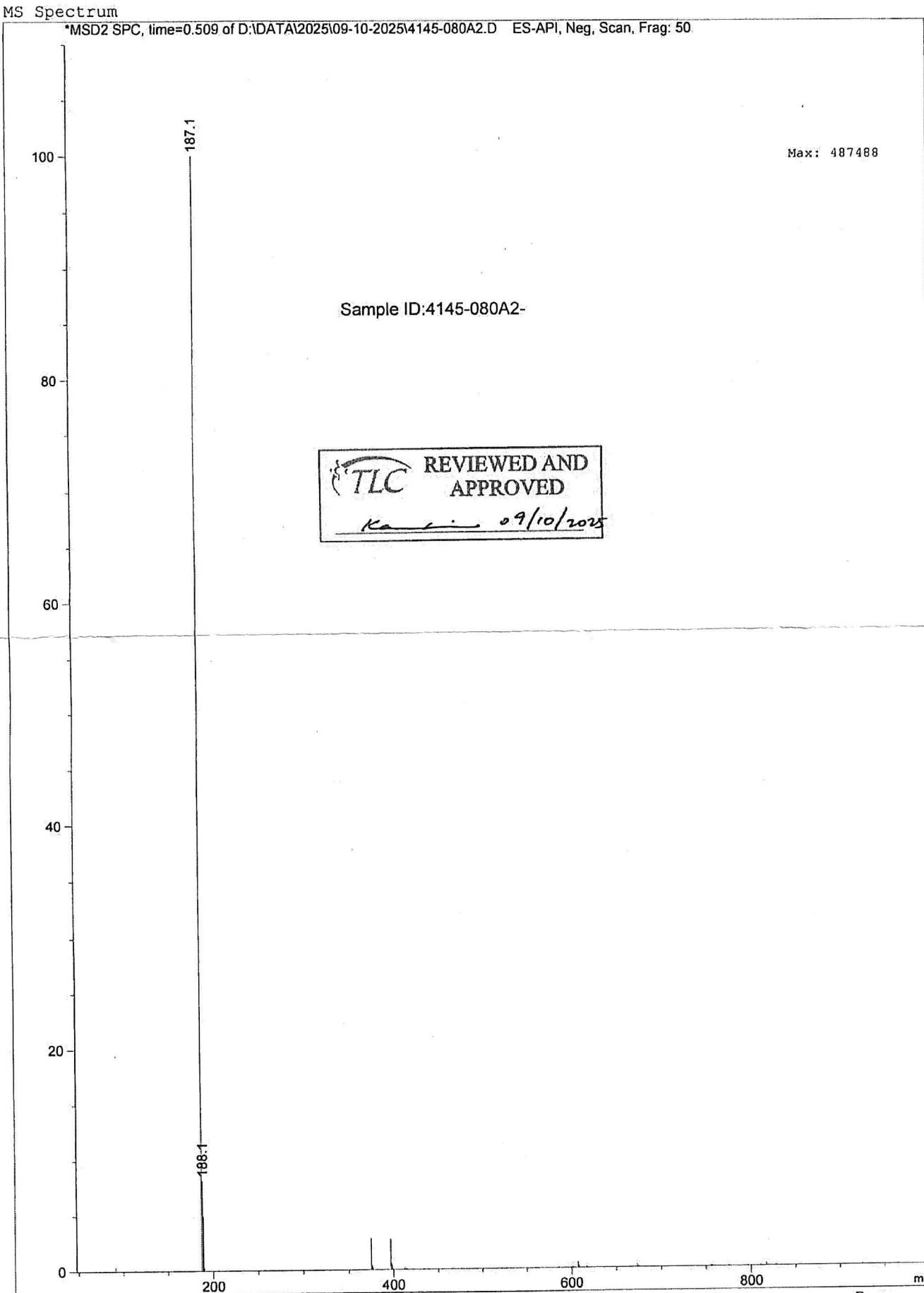
Spectrum: *4145-080A2
Region: 4000.00 400.00
Absolute threshold: 21.841
Sensitivity: 13

Peak list:

Position:	Intensity:
569.60	6.207
690.52	6.402
827.89	12.329
1019.51	3.857
1085.10	3.062
1172.44	0.866
1296.43	19.529
1434.29	5.068
1583.49	14.471
3196.88	4.513

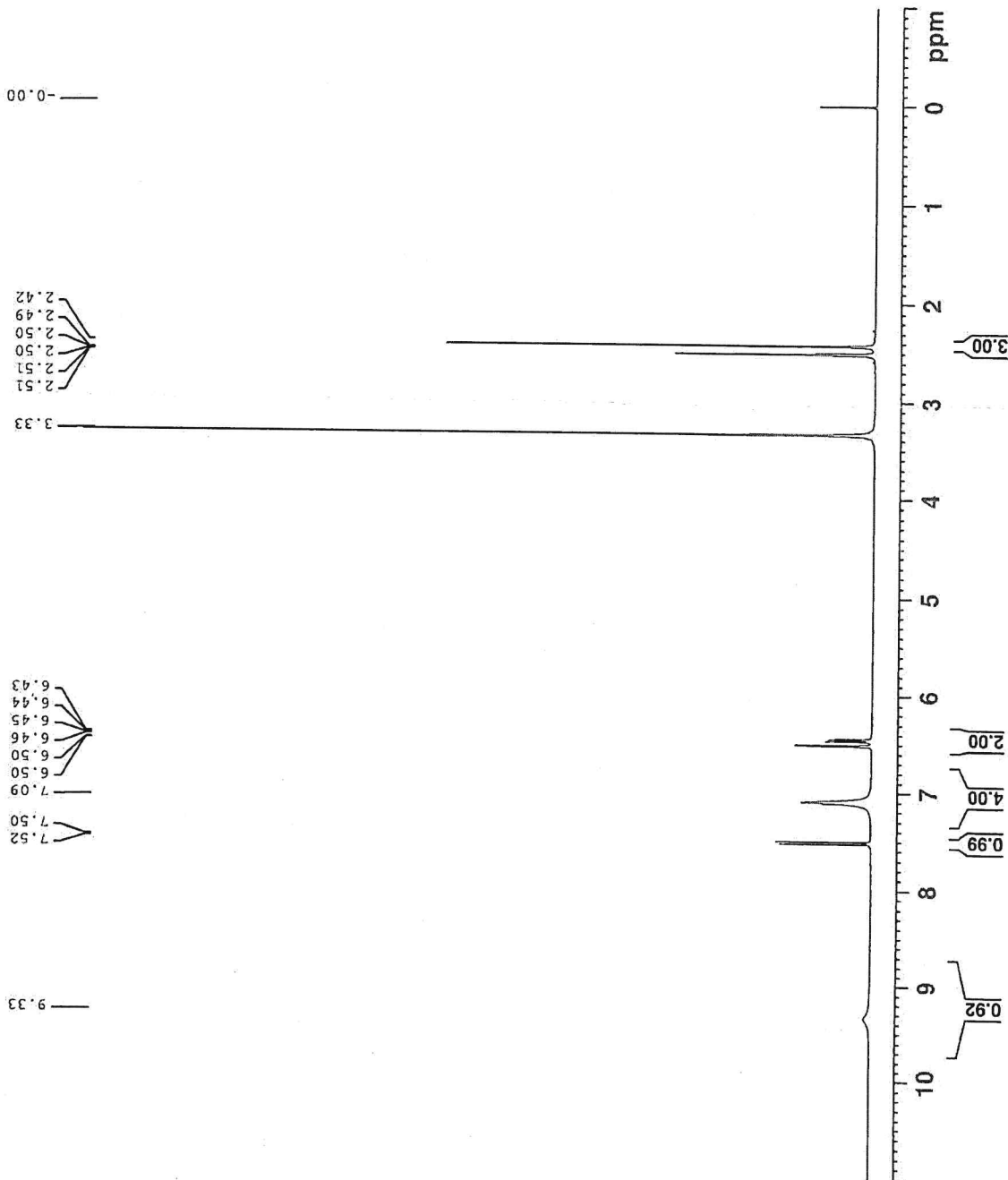
TLC
REVIEWED AND
APPROVED
K... 09/10/2025

Signature: Xudong Zhang, 04-27-2021 14:50:40 (GMT+08:00), Authorship - signifies ownership
4145-080A2





4145-080A2 1H NMR in DMSO-d6



Current Data Parameters
NAME 2025-09-10 (NMR-400_2)
EXPNO 34
PROCNO 1

F2 - Acquisition Parameters
Date_ 20250910
Time 10.22 h
INSTRUM spect
PROBHD Z116098_0656 (z30)
PULPROG zg30
TD 65536
SOLVENT DMSO-d6
NS 4
DS 0
SWH 9615.385 Hz
FIDRES 0.293438 Hz
AQ 3.4078720 sec
RG 125.08
DW 52.000 usec
DE 6.50 usec
TE 298.0 K
D1 1.00000000 sec
TDO 1
SFO1 400.1836016 MHz
NUC1 1H
P1 10.29 usec
PL1 18.13100052 W

F2 - Processing parameters
SI 65536
SF 400.1800025 MHz
WDW EM
SSB 0
FB 0.30 Hz
GB 0
PC 0.50

TLC REVIEWED AND APPROVED
K... 09/10/2025