

Name: (Z)-11-[3-(Dimethylamino)propylidene]-6,11-dihydrodibenzo[b,e]-oxepine-2-carbaldehyde Hydrochloride

(Olopatadine Aldehyde Hydrochloride)

Lot#: GR-6-113

Manuf Date: 14/06/2015

CAS No.: NA

MF: C₂₀H₂₂ClNO₂

MW: 343.85

Appearance: Pale yellow solid

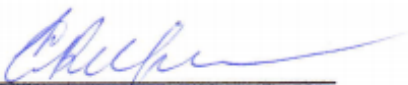
Purity: 97.5% by HPLC (contains some (*E*)-isomer)

¹H-NMR: Conforms (contains some (*E*)-isomer)

MS-ESI (+) Conforms (shows peak at m/z = 308.16 [M-HCl+H]⁺)

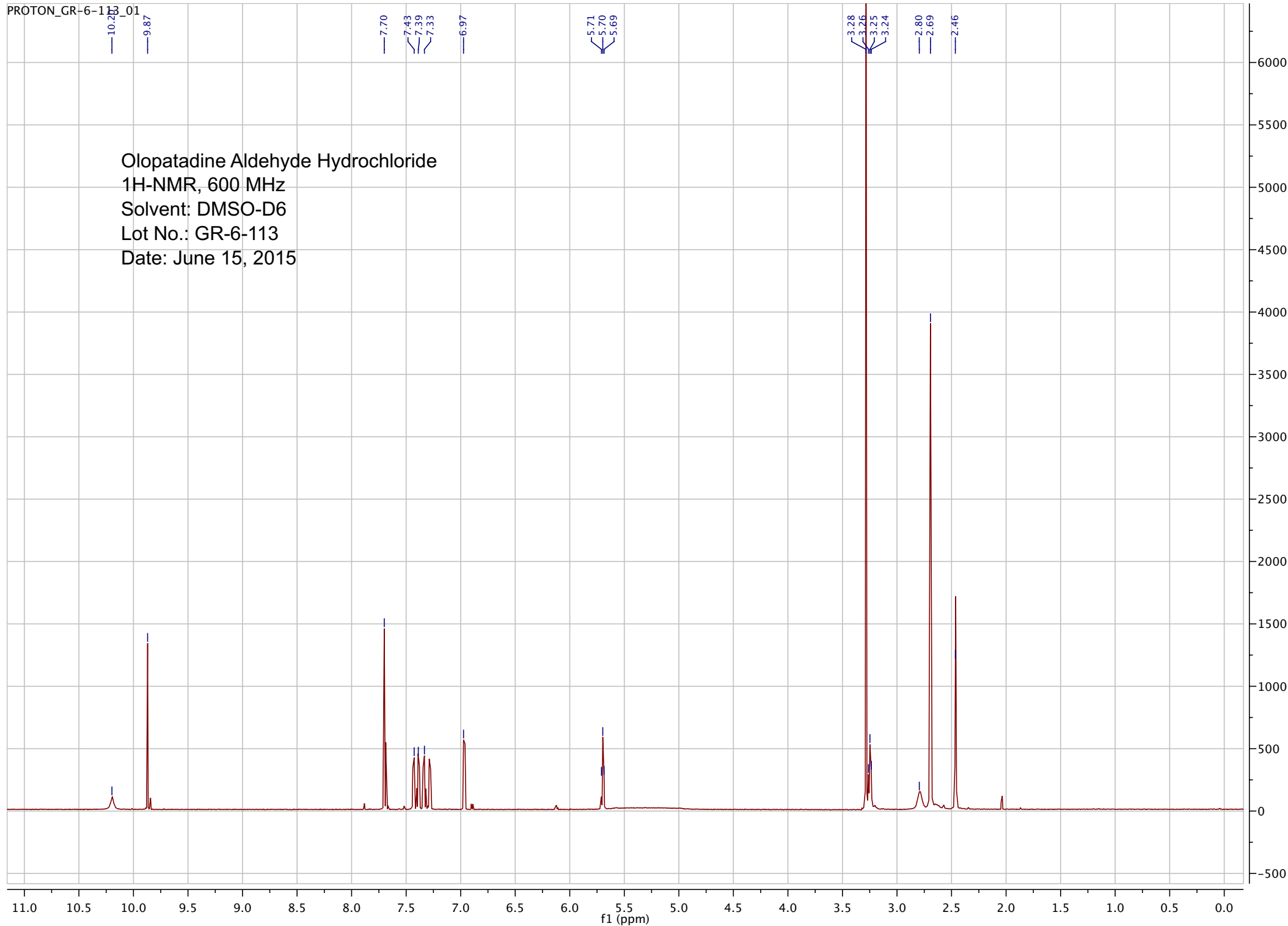
Approved by:

Date: 15/06/2015



Ghenadie Rusu, Ph.D.
President, Owner

Olopatadine Aldehyde Hydrochloride
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-6-113
Date: June 15, 2015



15:35:02, 16-Jun-2015
TOF MS ES+
262

pp_2015_058_GR_6_113 35 (0.648) Sm (SG, 2x5.00); Sb (2,10.00)

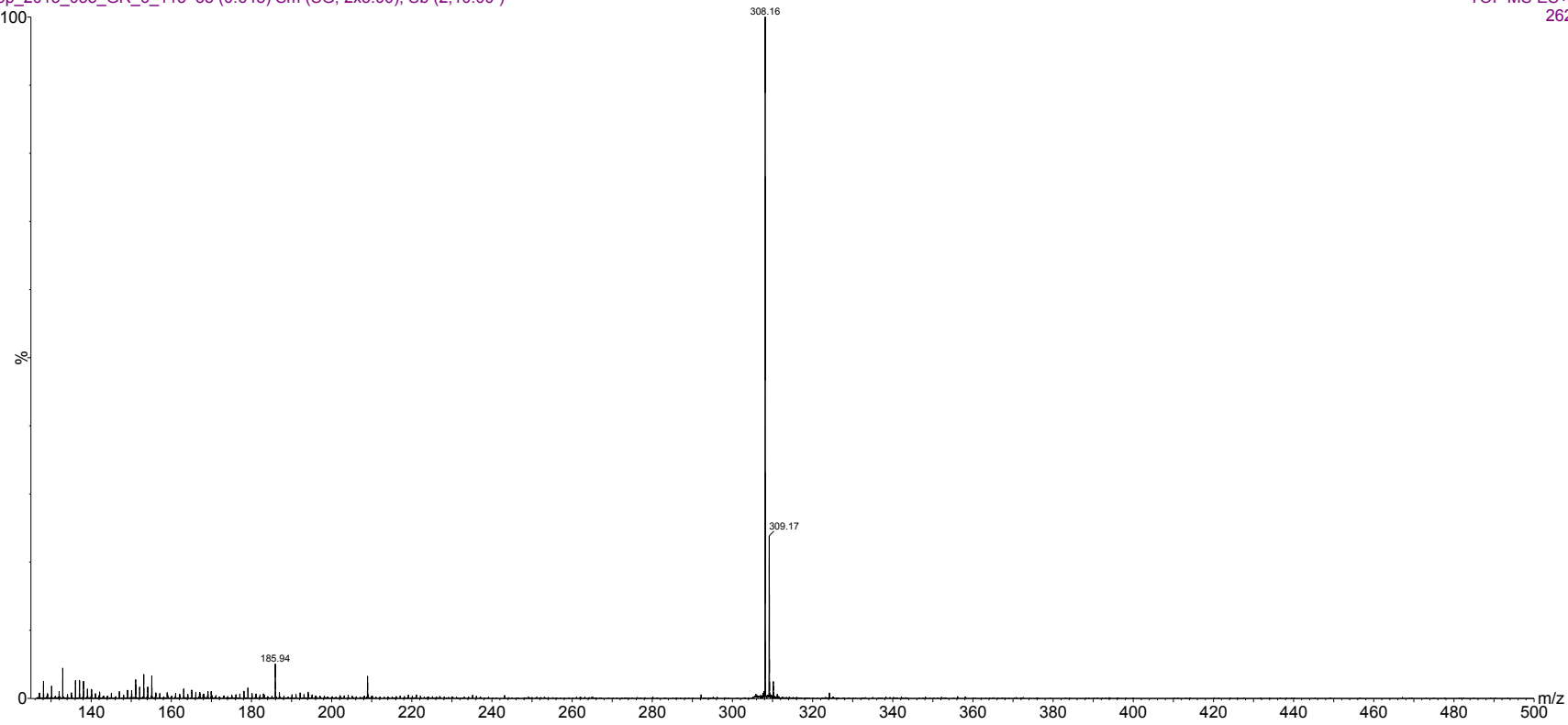
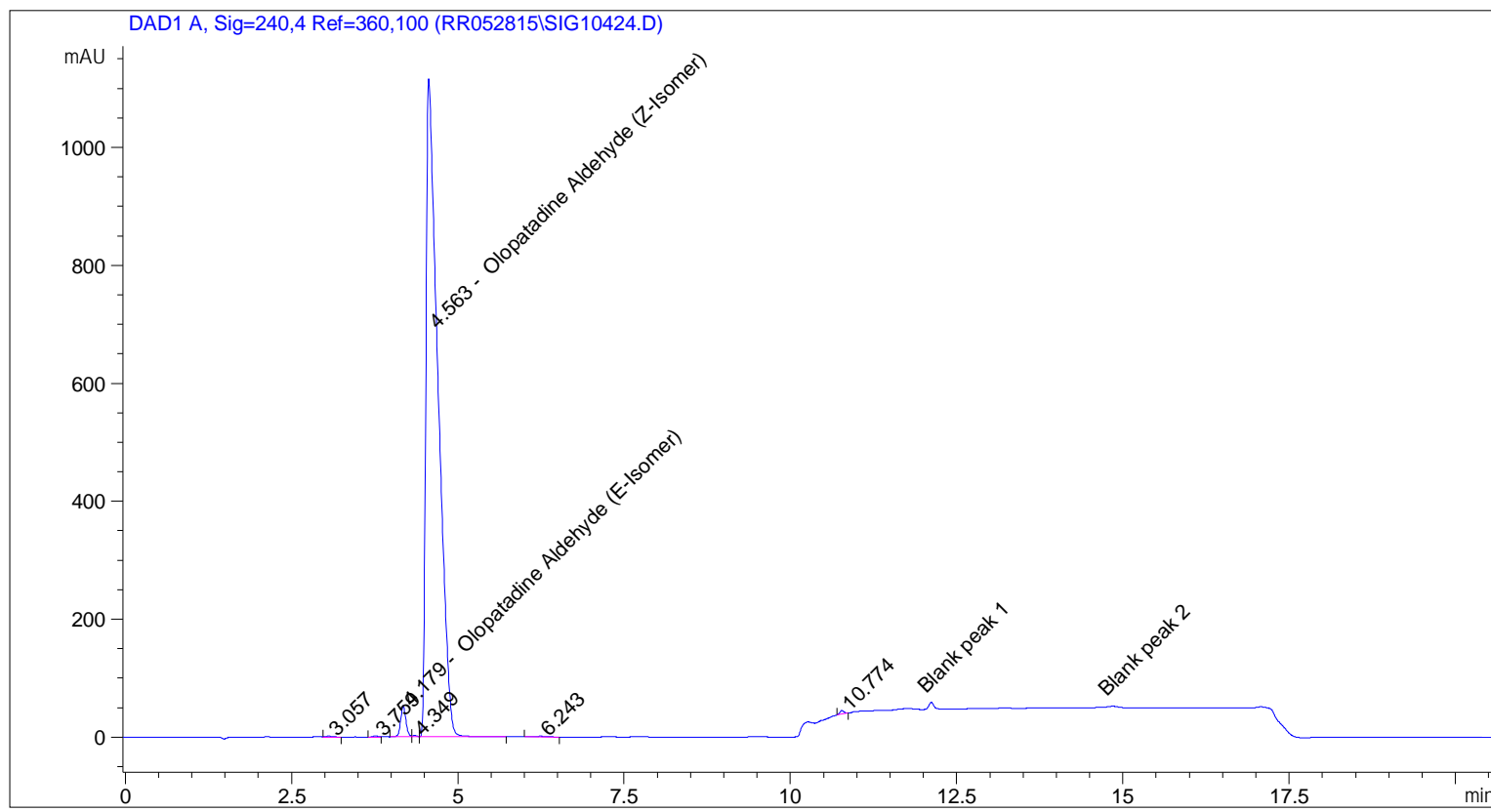


Figure 1 Raw ESI-MS spectrum for sample GR-6-113. Shows monoisotopic [M+H]⁺ mass.

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Acq. Operator : rrusu
Acq. Instrument : Instrument 1 Location : Vial 27
Injection Date : 6/14/2015 6:29:48 PM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\RR061415_113.M
Last changed : 6/14/2015 6:25:26 PM by rrusu
Analysis Method : C:\CHEM32\1\METHODS\RR061415-_113PM.M
Last changed : 6/15/2015 11:50:08 AM by rrusu
Sample Info : Zorbax Eclipse XDB-C18



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : Monday, June 15, 2015 11:47:48 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=240,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.057	VB	0.0937	9.87801	0.0685	?
2	3.759	BV	0.0824	8.59454	0.0596	?
3	4.179	BV	0.0848	291.00427	2.0194	Olopatadine Aldehyde (E-Isomer)
4	4.349	VV	0.0729	11.56711	0.0803	?
5	4.563	VB	0.1806	1.40508e4	97.5064	Olopatadine Aldehyde (Z-Isomer)

Sample Name: GR-6-113

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
6	6.243	VB	0.1540	11.51755	0.0799	?
7	10.774	BB	0.0626	26.77322	0.1858	?

Totals : 1.44102e4

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*** End of Report ***