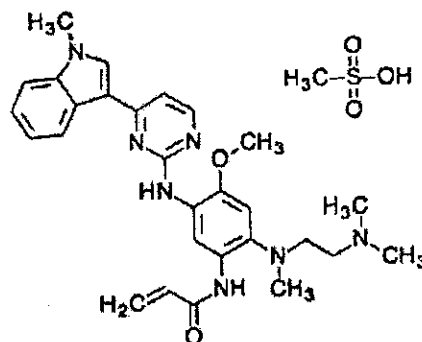


# LC Laboratories®

## CERTIFICATE OF ANALYSIS

### Osimertinib, Methanesulfonate Salt, >99%

LC LABS CAT. NO.    **O-7233**  
FORMULA             $C_{28}H_{33}N_7O_2 \bullet CH_4O_3S$   
M.W.                 595.71  
CAS NO.            [1421373-66-1]  
STORAGE:         Store at or below -20 °C\*\*\*  
SOLUBILITY:       Soluble in DMSO.



## ANALYTICAL DATA

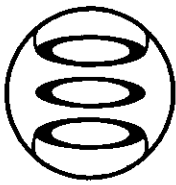
LOT NUMBER        **SMM-101**  
FORM                Crystalline solid; granular or powder  
COLOR                Yellow  
HPLC PURITY       >99% (see attached chromatogram)  
TLC PURITY        >99% (see attached chromatogram)  
PROTON NMR       (see attached spectrum)  
ELEMENTAL ANALYSIS    For  $C_{28}H_{33}N_7O_2 \bullet 1.1CH_4O_3S \bullet 0.3H_2O$  :

	<u>Calculated</u>	<u>Found</u>
C	57.23%	56.89%
H	6.27%	6.65%
N	16.05%	15.87%
S	5.78%	6.16%

\*\*\*This product is stable at ambient temperature for several weeks during ordinary shipping and time spent in Customs or other delay. We recommend storage at -20 °C for long-term storage.

September 24, 2019

01COFA-B12W-Z-COFA1SMM101.WPD

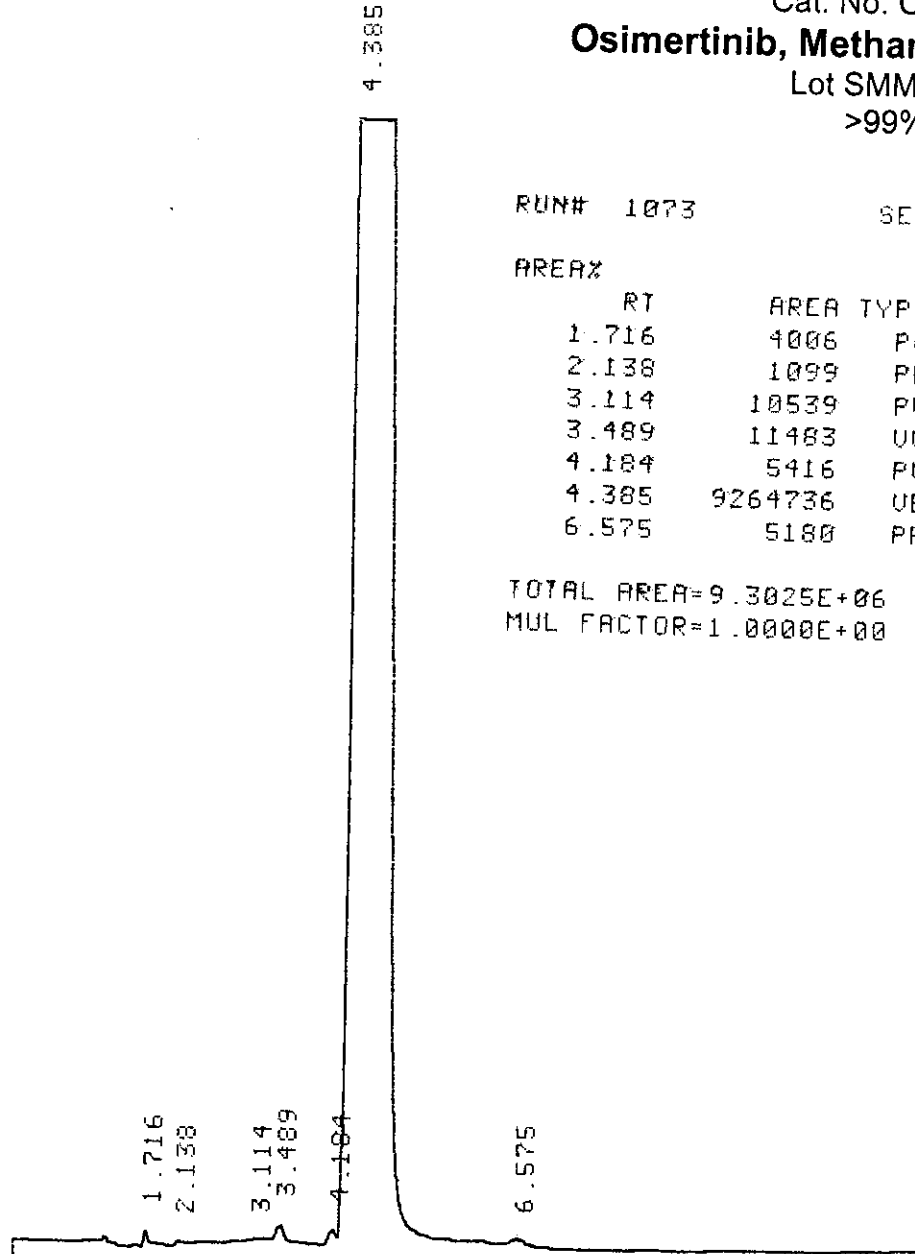


# LC Laboratories®

Cat. No. O-7233  
**Osimertinib, Methanesulfonate Salt**  
 Lot SMM-101  
 >99%

\*CAT. No. O-7233 OSIMERTINIB, MESYLATE SALT LOT No. SMM-101

# RUN # 1073 SEP 11, 2019 04:51:53  
 START



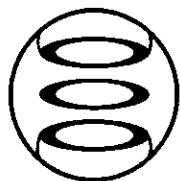
RUN# 1073 SEP 11, 2019 04:51:53

AREA%	RT	AREA	TYPE	WIDTH	AREA%
	1.716	4006	PV	.072	.04306
	2.138	1099	PB	.082	.01181
	3.114	10539	PV	.593	.11329
	3.489	11483	UV	.165	.12344
	4.184	5416	PV	.109	.05822
	4.385	9264736	UB	.272	99.59453
	6.575	5180	PP	.220	.05568

TOTAL AREA=9.3025E+06  
 MUL FACTOR=1.0000E+00

TIMETABLE STOP

HPLC: C<sub>18</sub> Column, 4.6 mm x 30 cm  
 Acetonitrile/Methanol/Water/Trifluoroacetic Acid 20/20/60/0.1  
 2 mL/min  
 UV<sub>254</sub> Detection



# LC Laboratories®

Cat. No. O-7233

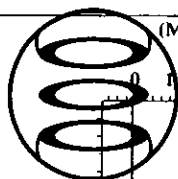
**Osimertinib, Methanesulfonate Salt**

Lot SMM-101

>99%



- TLC: 60 Å silica gel plates with fluorescent indicator
- Develop with Chloroform/Methanol/Conc.NH<sub>4</sub>OH 96/4/1
- Visualize via UV fluorescence quenching
- Also visualize by exposure to iodine vapor



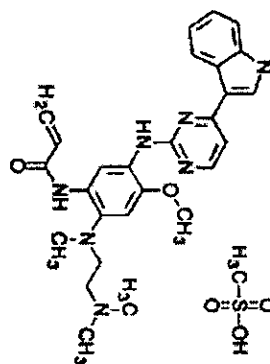
(Millions)

# LC Laboratories®

0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0 27.0

SMM-101-300MHz\_PROTON-7.pdf  
Acquisition Date: December 23, 2019  
Spectrometer Freq.: 300 MHz  
Solvent: CD<sub>3</sub>OD

Cat. No. O-7233  
**Osimertinib, Methanesulfonate Salt**  
Lot SMM-101  
>99%



X : parts per Million : 1H

