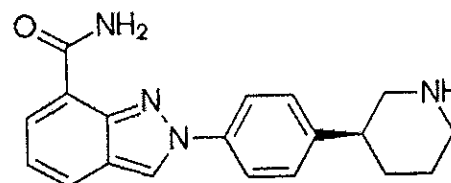


LC Laboratories®

CERTIFICATE OF ANALYSIS

Niraparib, Free Base, >99%

LC LABS CAT. NO. **N-5665**
FORMULA $C_{19}H_{20}N_4O$
M.W. 320.39
CAS NO. [1038915-60-4]
STORAGE: Store at or below -20 °C***
SOLUBILITY: Soluble in DMSO.



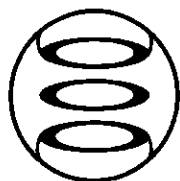
ANALYTICAL DATA

LOT NUMBER **NRP-101**
FORM Crystalline solid; granular or powder
COLOR White to very light yellow
HPLC PURITY >99% (see attached chromatogram)
TLC PURITY >99% (see attached chromatogram)
PROTON NMR (see attached spectrum)
ELEMENTAL ANALYSIS For: $C_{19}H_{20}N_4O$:

<u>Calculated</u>	<u>Found</u>
C 71.23%	71.14%
H 6.29%	6.43%
N 17.49%	17.62%

***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.

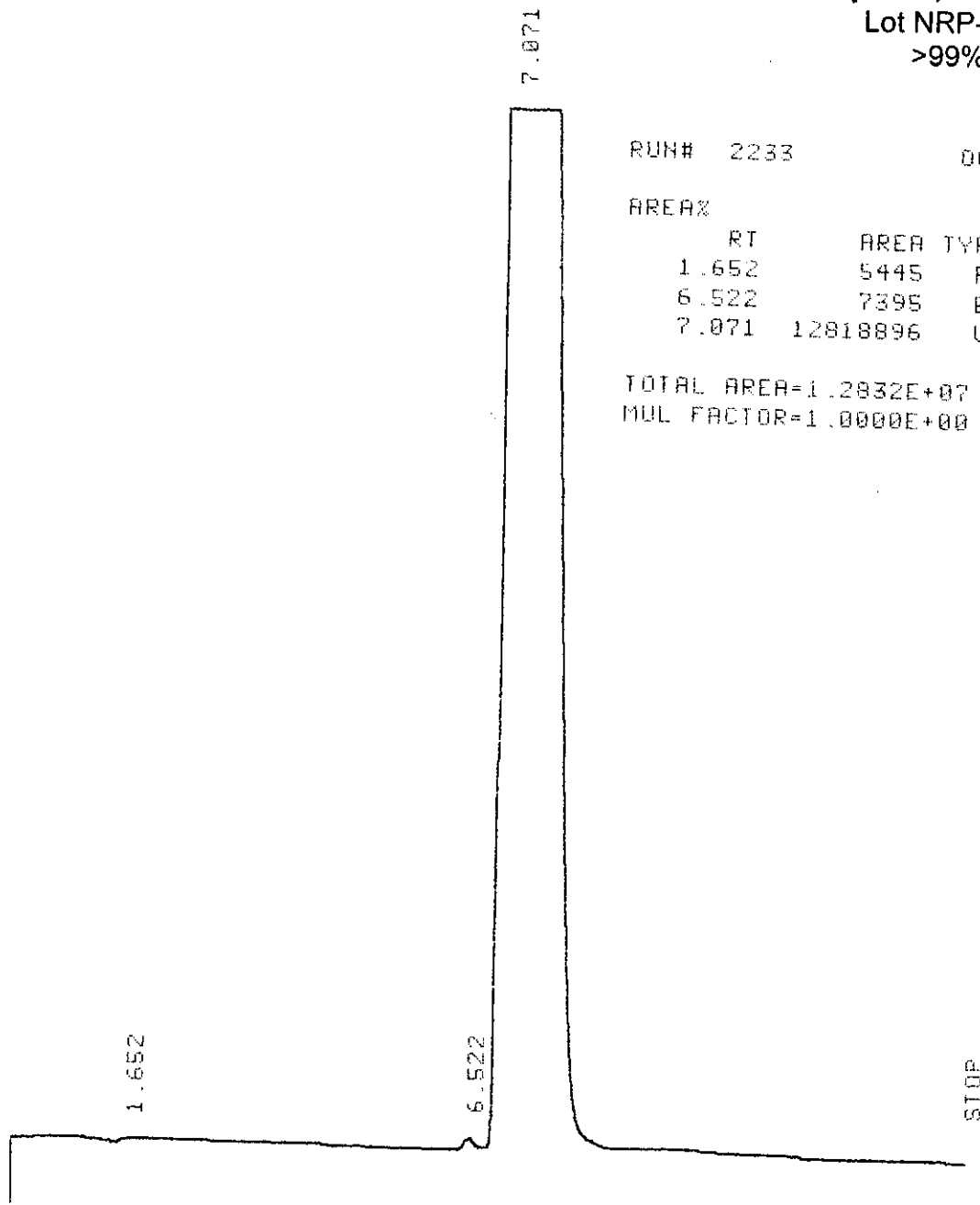
November 4, 2019
D:\COFA-BIZ\IN-2-COFA\NRP101.WPD



LC Laboratories®

Cat. No. N-5665
Niraparib, Free Base
 Lot NRP-101
 >99%

*CAT. No. N-5665 NIRAPARIB, FREE BASE LOT No. NRP-101
 * RUN # 2233 OCT 30, 2019 13:54:54
 START

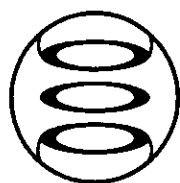


RUN# 2233 OCT 30, 2019 13:54:54

RT	AREA	TYPE	WIDTH	AREA%
1.652	5445	PU	.400	.04243
6.522	7395	BU	.166	.05763
7.071	12818896	UB	.450	99.89994

TOTAL AREA=1.2832E+07
 MUL FACTOR=1.0000E+00

HPLC: C₁₈ Column, 4.6 mm x 30 cm
 Acetonitrile/Methanol/Water/Trifluoroacetic Acid 16/16/68/0.1
 2 mL/min
 UV₂₅₄ Detection



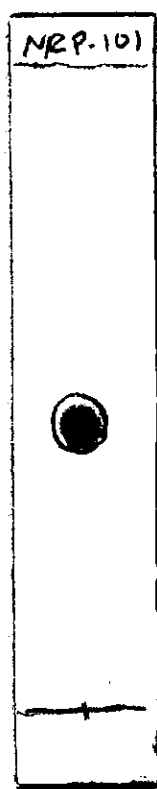
LC Laboratories[®]

Cat. No. N-5665

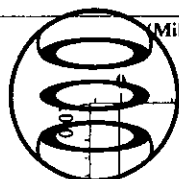
Niraparib, Free Base

Lot NRP-101

>99%



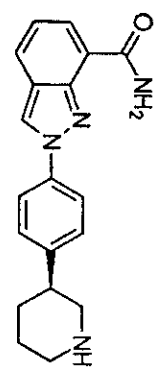
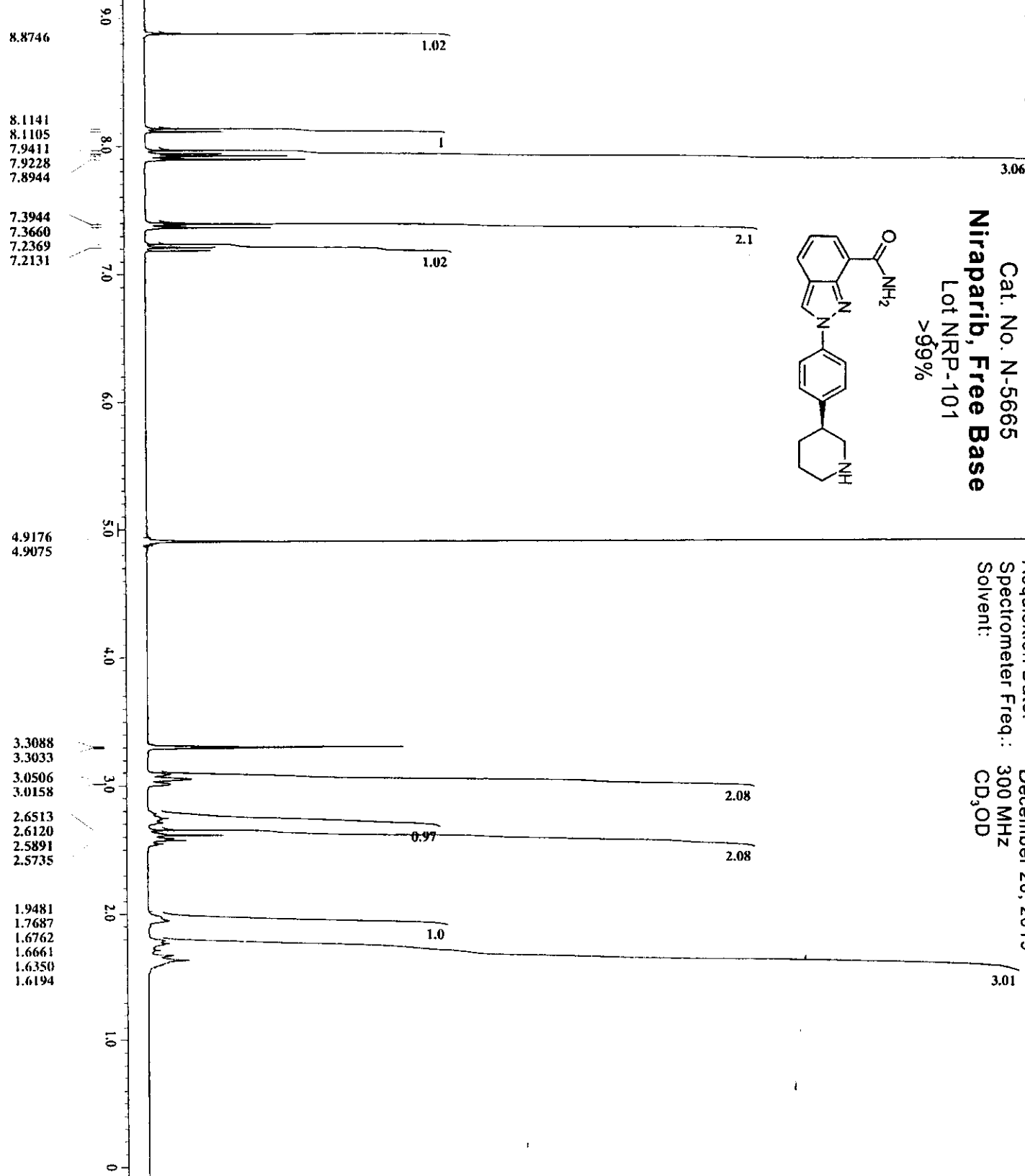
- TLC: 60 Å silica gel plates with fluorescent indicator
- Develop with Chloroform/Methanol/Water/conc.NH₄OH 80/20/2/2
- Visualize via UV fluorescence quenching
- Also visualize by exposure to iodine vapor



LC Laboratories®

NRP-101-300MHz-PROTON-6.jdr

X : parts per Million : 1H



Niraparib, Free Base
 Cat. No. N-5665
 Lot NRP-101
 >99%

Acquisition Date: December 20, 2019
 Spectrometer Freq.: 300 MHz
 Solvent: CD₃OD