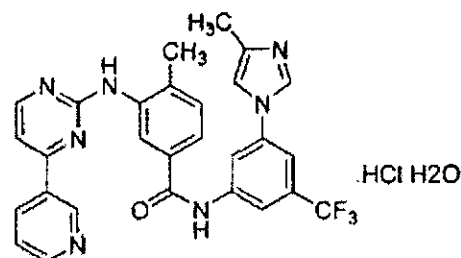


LC Laboratories®

CERTIFICATE OF ANALYSIS

Nilotinib, Hydrochloride Salt, Monohydrate, >99%

LC LABS CAT. NO. **N-8266**
FORMULA $C_{28}H_{22}F_3N_7O \cdot HCl \cdot H_2O$
M.W. 584.00
CAS NO. [923288-90-8]
STORAGE Store at or below -20 °C***
SOLUBILITY Soluble in DMSO.



ANALYTICAL DATA

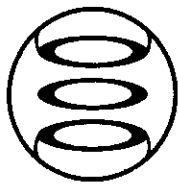
LOT NUMBER **NLH-101**
FORM Crystalline solid; granular or powder
COLOR Off-white
HPLC PURITY >99% (see attached chromatogram)
TLC PURITY >99% (see attached chromatogram)
PROTON NMR (see attached spectrum)

<u>ELEMENTAL ANALYSIS</u>	For: $C_{28}H_{22}F_3N_7O \cdot HCl \cdot 1.2H_2O$:	<u>Calculated</u>	<u>Found</u>
		C 57.23%	57.09%
		H 4.36%	4.30%
		Cl 6.03%	5.94%
		F 9.70%	9.48%
		N 16.69%	16.61%

***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 26, 2019

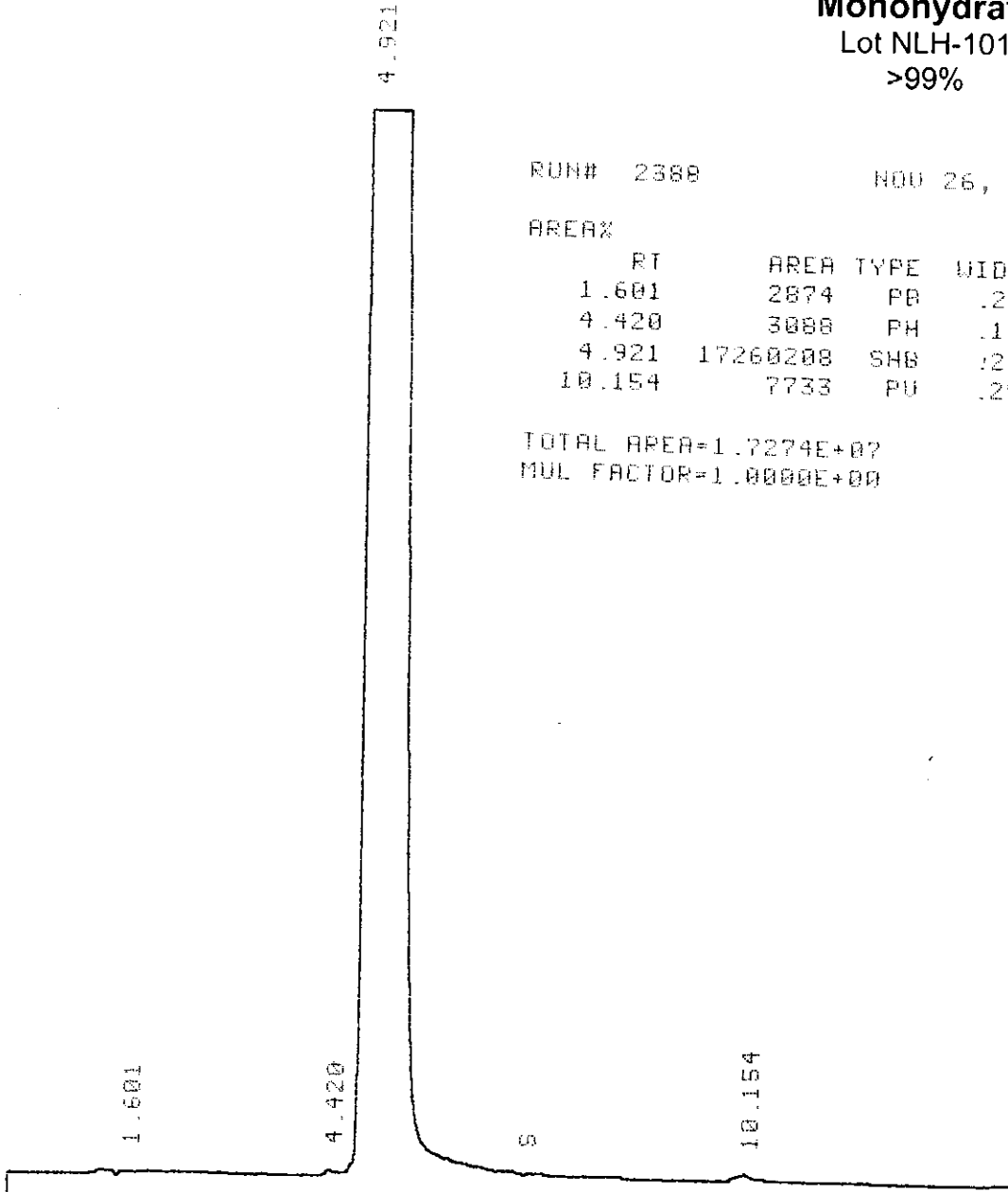
D:\COFA-BIZ\IN-Z-COFA\NLH101FL.WPD



LC Laboratories®

Cat. No. N-8266
Nilotinib Hydrochloride Salt,
Monohydrate
 Lot NLH-101
 >99%

*CAT. No. N-8266 NILOTINIB, HCl SALT HYDRATE LOT No. NLH-101
 * RUN # 2388 NOV 26, 2019 00:27:32
 START



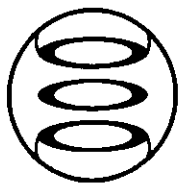
RUN# 2388 NOV 26, 2019 00:27:32

RT	AREA	TYPE	WIDTH	AREA%
1.601	2874	PK	.214	.01664
4.420	3086	PK	.131	.01788
4.921	17260208	SHB	.290	99.92074
10.154	7733	PU	.294	.04477

TOTAL AREA=1.7274E+07
 MUL FACTOR=1.0000E+00

TIMETABLE STOP

HPLC: C₁₈ Column, 4.6 mm x 30 cm
 Acetonitrile/Methanol/Water/Trifluoroacetic acid 25/25/50/0.1
 2 mL/min
 UV₂₅₄ Detection



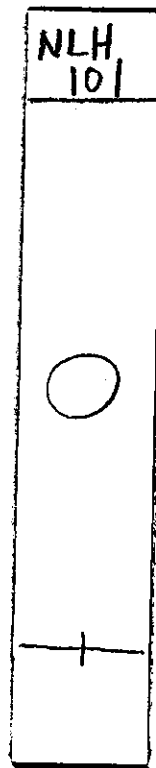
LC Laboratories®

Cat. No. N-8266

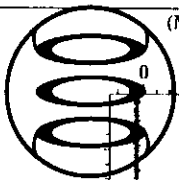
**Nilotinib Hydrochloride Salt,
Monohydrate**

Lot NLH-101

>99%



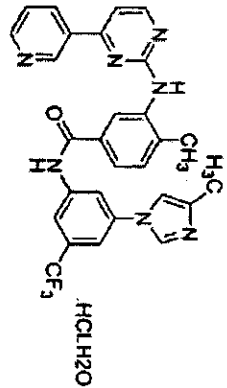
- TLC: 60 Å silica gel plates with fluorescent indicator
- Develop with Chloroform/Methanol/conc.NH₄OH 90/10/1
- Visualize via UV fluorescence quenching
- Also visualize by exposure to iodine vapor



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NLH-101-300MHz_PROTON-5.jdr
 Acquisition Date: December 23, 2019
 Spectrometer Freq.: 300 MHz
 Solvent: DMSO-d₆

Cat. No. N-8266
Nilotinib Hydrochloride Salt,
Monohydrate
 Lot NLH-101
 >99%



X : parts per Million : 1H

