

CERTIFICATE OF ANALYSIS

Nintedanib, Ethanesulfonate Salt, >99%

(Nintedanib was Formerly Intedanib or Vargatef)

LC LABS CAT. NO. N-9055

FORMULA $C_{31}H_{33}N_5O_4 \bullet C_2H_6O_3S$

M.W. 649.76

CAS NO. [656247-18-6]

STORAGE: Store at or below -20 °C***

SOLUBILITY: Soluble in DMSO.

ANALYTICAL DATA

LOT NUMBER NNE-107

FORM Crystalline or amorphous solid; granular or powder

COLOR Yellow

<u>HPLC PURITY</u> >99% (see attached chromatogram)

<u>TLC PURITY</u> >99% (see attached chromatogram)

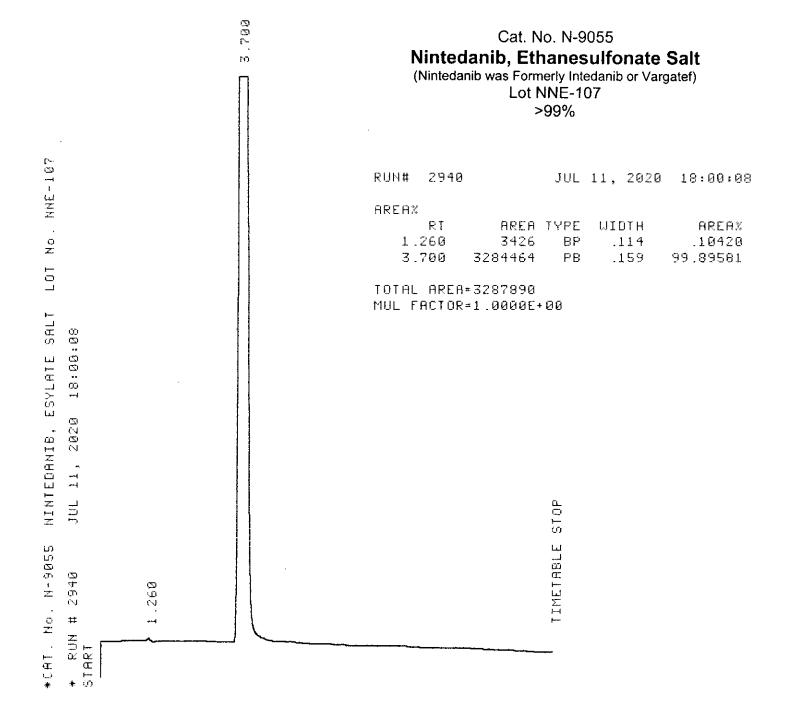
ELEMENTAL ANALYSIS For $C_{31}H_{33}N_5O_4 \bullet C_2H_6O_3S \bullet 0.4H_2O$:

CalculatedFoundC 60.33%60.28%H 6.11%6.04%N 10.66%10.66%S 4.88%4.85%

Lot completion date: July 13, 2020 D NOFA-BIZIN-Z-COFAINNE 107. WPD

^{***}This product is stable at ambient temperature for several weeks during ordinary shipping and time spent in Customs or other delay. For long-term stability, store tightly closed at -20 °C.





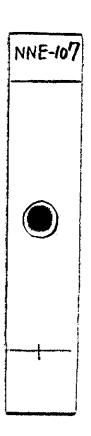
HPLC: C₁₈ Column, 4.6 mm x 30 cm Acetonitrile/Methanol/Water/Trifluoroacetic Acid 29/29/42/0.1 2 mL/min UV₂₅₄ Detection



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Lot NNE-107

>99%



- TLC: 60 Å silica gel plates with fluorescent indicator
- Develop with Chloroform/Methanol/conc. NH₄OH 86/14/1
- Visualize via UV fluorescence quenching
- Also visualize by exposure to iodine vapor