

CERTIFICATE OF ANALYSIS

Ibrutinib, Free Base, >99%

LC LABS CAT. NO. I-3311

FORMULA C₂₅H₂₄N₆O₂

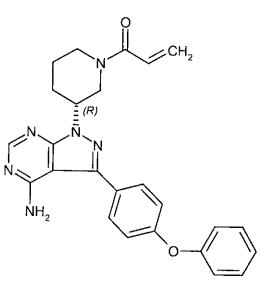
M.W. 440.50

CAS NO. [936563-96-1]

STORAGE: Store at or below -20 ºC***

SOLUBILITY: Soluble in DMSO at 200 mg/mL;

soluble in ethanol at 25 mg/mL with slight warming.



ANALYTICAL DATA

LOT NUMBER BRT-105

FORM Crystalline solid; granular or powder

COLOR White to off-white

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

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

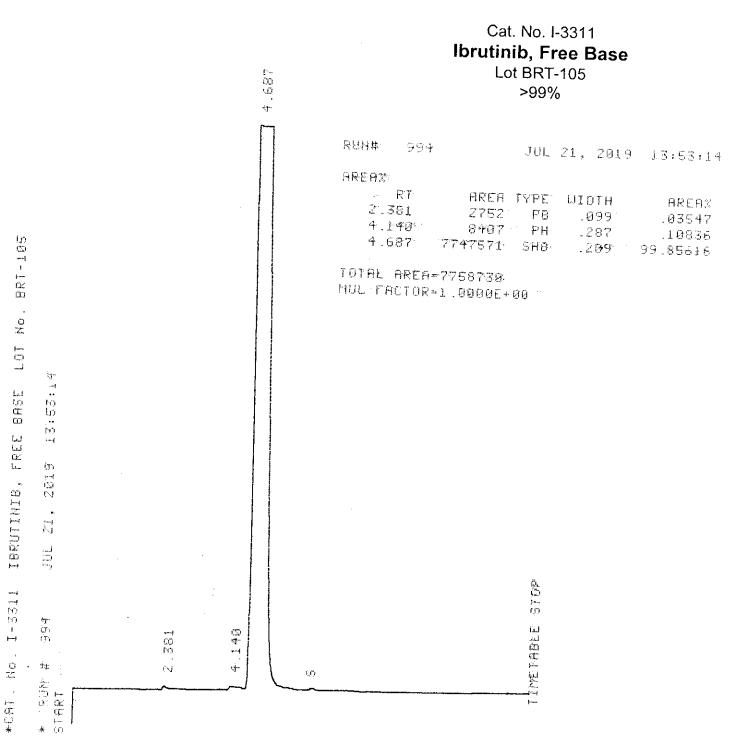
ELEMENTAL ANALYSIS For C25H24N6O2:

CalculatedFoundC 68.17%68.40%H 5.49%5.62%N 19.08%19.02%

July 24, 2019
DINCOFA-BIZNE-B-COFANBRITIDSFL. WPD

^{***}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.





HPLC: C_{18} Column, 4.6 mm x 30 cm Acetonitrile/Methanol/Water/Trifluoroacetic Acid 32/32/36/0.1 2 mL/min UV_{254} Detection



Cat. No. I-3311 Ibrutinib, Free Base Lot BRT-105 >99%



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