

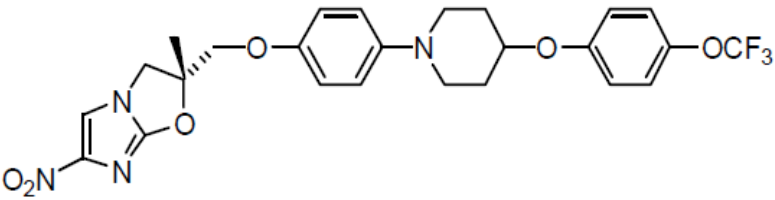
Delamanid (Reference Standard)

Catalog No. NR-51636

Lot: 70049844 (Otsuka S21E95)

Manufacturing Date: 26MAY2021

All information provided by Otsuka Pharmaceutical Co., Ltd.
The date of analysis for the bulk material (Otsuka lot S21E95) was 25JUN2021.

| | |
|---------------------------------|--|
| Chemical Name | (R)-2-Methyl-6-nitro-2-[(4-{4-[4-(trifluoromethoxy)phenoxy]piperidin-1-yl}phenoxy)methyl]-2,3-dihydroimidazo[2,1-b]oxazole |
| Structure |  |
| Formula | C ₂₅ H ₂₅ F ₃ N ₄ O ₆ |
| Molecular Weight | 534.48 |
| Content per Vial | 20 mg ± 0.3 mg |
| Appearance | Pale yellowish white crystalline powder |
| ¹ H NMR | Spectrum consistent with structure |
| MS | Spectrum consistent with structure |
| IR | Absorptions at 222-226 nm, 241-245 nm, and 318-322 nm |
| UV | Absorptions at 3130, 1610, 1514, 1240, 1038 and 827 cm ⁻¹ |
| Purity | 100.00% |
| Optical Purity by HPLC | 100.0%ee |
| Melting Point | 196.1°C (decomposition) |
| Water Content | 0.1% |
| Drug-Related Impurities by HPLC | Individual: < 0.05% Total: < 0.05% |
| Residual Solvents by GC | Ethanol: 62 ppm Acetone: 44 ppm |

/Heather Couch/

Heather Couch

25 MAR 2022

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® and the manufacturer to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

