



BOC Sciences
- Impurities

<http://www.bocsci.com/>

BOC Sciences - Impurities

Drug impurity analysis is essential for drug development in terms of understanding manufacturing process, drug quality and stability. A comprehensive study of drug impurities could help manufacturer better control their process and design the formulation.

Over the years, BOC Sciences has been supplying the pharmaceutical industries including big pharma, biotech and biopharma with high quality API impurities, intermediate impurities and degradants.

We work closely with our own laboratories, partners and API manufacturers for a full range of impurity library construction. We provide impurities that could be used as qualitative and quantitative standards. We offer services to upgrade research grade impurities to reference standards by quality improvement and full characterization.

Impurities by Indications

| | |
|---------------------|--|
| Anti-Diabetic | Herbicide |
| Anti-Hbv | Insecticide |
| Anti-Hcv | Dermatology |
| Anti-Hiv | Digestive System |
| Anti-Obesity | Musculoskeletal System |
| Anti-Viral | Nervous System |
| Alzheimer's Disease | Radiography |
| Anti-Hypertensive | Respiratory |
| Anti-Neoplastic | Cardiovascular And Blood System |
| Anti-Parkinsonism | Endocrine And Metabolic System |
| Anti-Infectives | Genito-Urinary System And Sex Hormones |
| Anti-Inflammatory | Others |
| Eye | |
| Immune System | |

Impurities - Quantitative

Impurities for quantitative analysis require for absolute(adjusted) purity for accurate weight calculation.

We offer primary and secondary analytical standards.

We can add additional tests for impurities, including residual solvent (GC) and water content (Karl Fischer).

Example COA

| TESTING ITEM | SPECIFICATION | RESULT |
|-------------------------------|--|----------|
| Appearance | Brown viscous gel | Conforms |
| Purity (by HPLC) | ≥ 95% | 95.1% |
| ¹ H NMR, MS, IR | Conforms to structure | Conforms |
| Water content (by KF) | - | 0.60% |
| Ethyl acetate residue (by GC) | - | 3.81% |
| Conclusion | The products complies with the given specification. | |
| Storage | 2 - 8 °C. Air sensitive. Keep in a inert atmosphere. | |

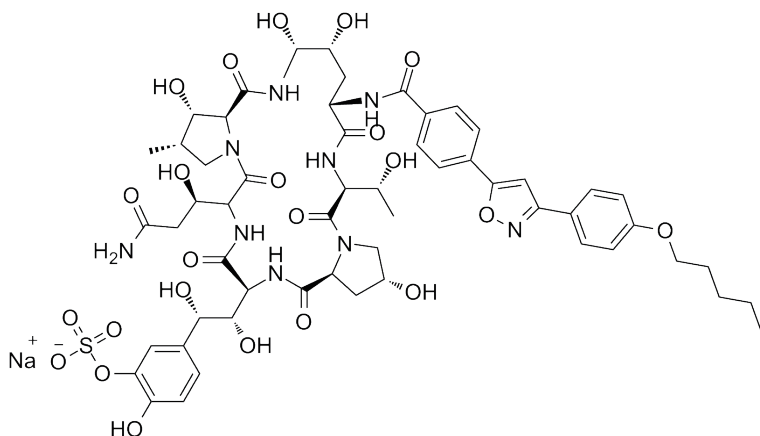
Impurities - Qualitative

Impurities for qualitative analysis require for good purity and confirmed structure for identification purpose.

BOC Sciences provides sufficient characterization for the impurities with confirmed identity.

We could offer HPLC, LC-MS, IR, UV-Vis, ¹HNMR, ¹³CNMR for product identity confirmation.

2D NMR is a powerful tool for complex structure elucidation.

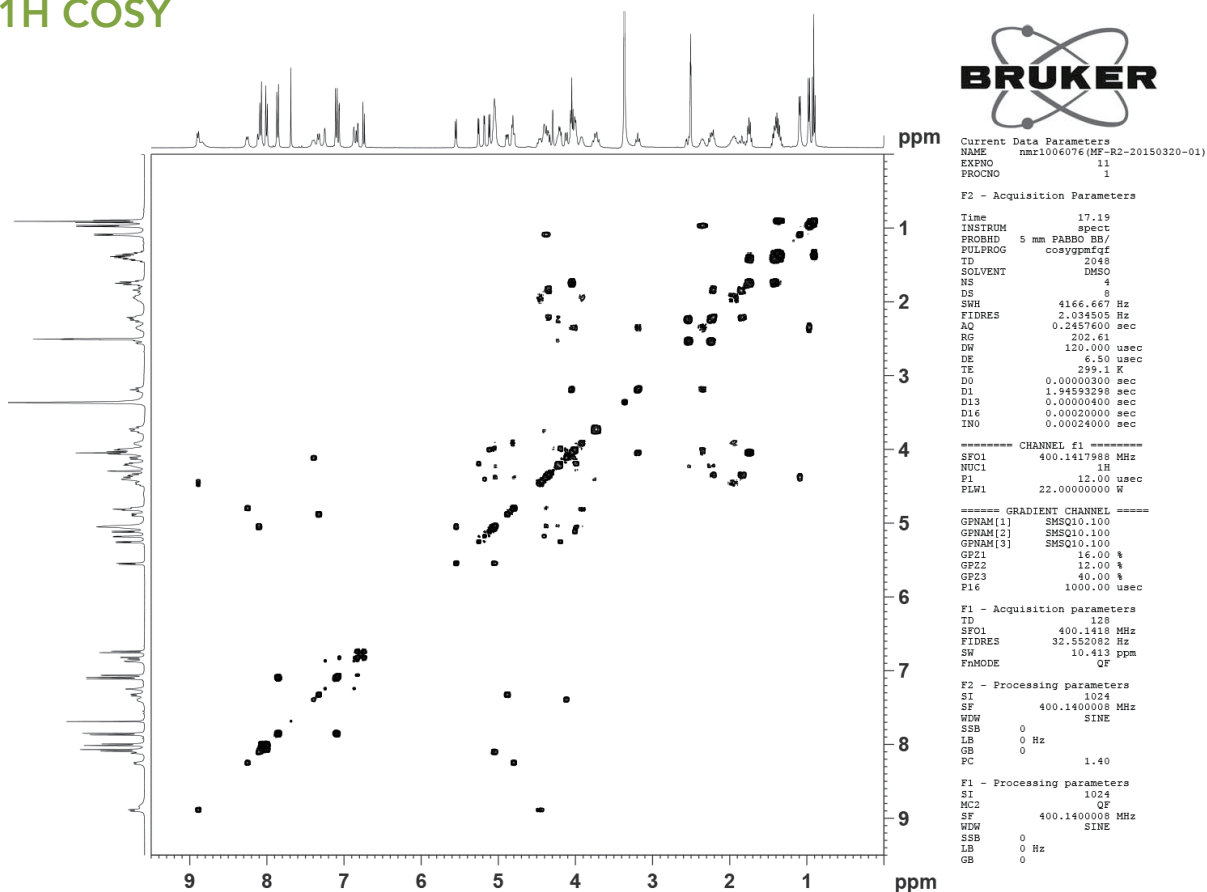


Micafungin impurity V

Chemical Formula: C₅₆H₇₀N₉NaO₂₃S

Molecular Weight: 1292.26

1H-1H COSY



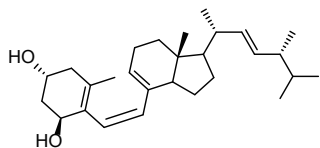
Key Impurity Profiles

BOC Sciences offers over 10,000 impurities for 1,700 API species from stock. We offer custom synthesis and scale up upon customers and market needs.

We provide full impurity profiles for the following key APIs.

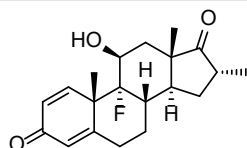
| | | | |
|--------------|---------------|--------------|------------------|
| Diclofenac | Atorvastatin | Acyclovir | Doxorubicin |
| Meloxicam | Empagliflozin | Tacrolimus | Bortezomib |
| Doepzil | Sugammadex | Oseltamivir | Rifampicin |
| Brivaracetam | Epinephrine | Doxycycline | Mitomycin |
| Rosuvastatin | Dexamethasone | Fluticasone | Cyclophosphamide |
| Dabigatran | Vildagliptin | Erythromycin | Prednisolone |

Featured Impurities



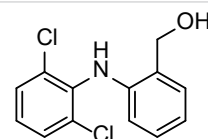
pre-Doxercalciferol

CAS 1818286-63-3
Catalog number: B1959-054062



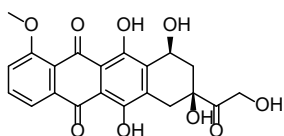
17-Oxo Dexamethasone

CAS 1880-61-1
Catalog number: B0731-263435



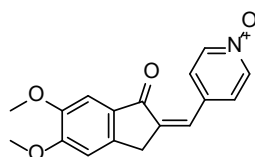
Diclofenac Impurity C

CAS 27204-57-5
Catalog number: B2694-470082



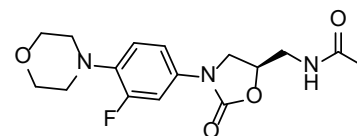
Doxorubicinone

CAS 24385-10-2
Catalog number: B0805-470478



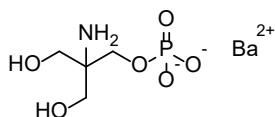
Donepezil Alkene Pyridine N-Oxide

CAS 896134-06-8
Catalog number: B0794-284905



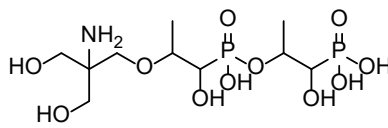
(R)-Linezolid (custom synthesis,
99.5% purity, 99.9% ee)

CAS 872992-20-6



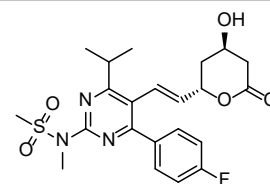
Fosfomycin EP Impurity C

CAS 114252-50-5
Catalog number: B0977-284873



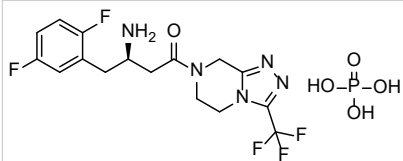
Fosfomycin EP Impurity D

CAS 1262243-12-8



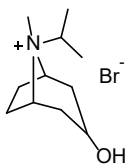
Rosuvastatin lactone

CAS 503610-43-3
Catalog number: B0194-069823



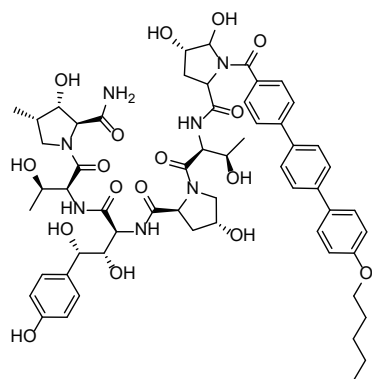
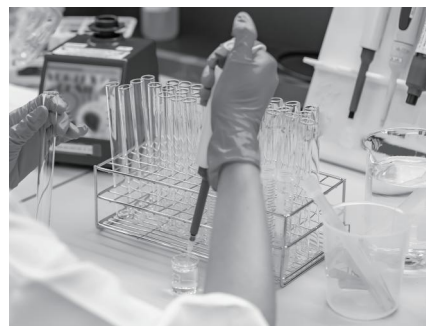
Sitagliptin EP Impurity B Phosphate

CAS 1345822-87-8
Catalog number: B2694-179047



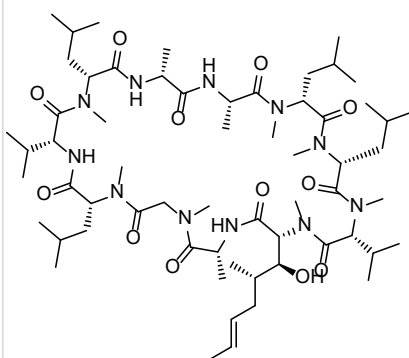
Ipratropium Impurity A

CAS 58005-18-8
Catalog number: B2694-473323



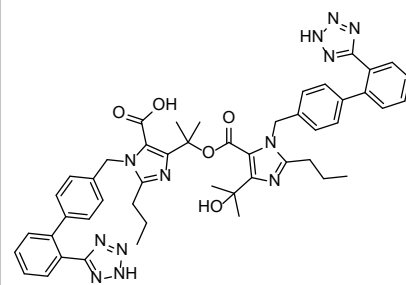
Anidulafungin Impurity A

Catalog number: B2694-292578



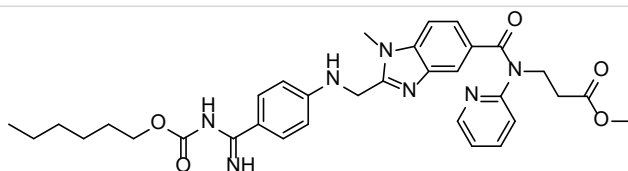
Cyclosporin B

CAS 63775-95-1
Catalog number: B0052-074128



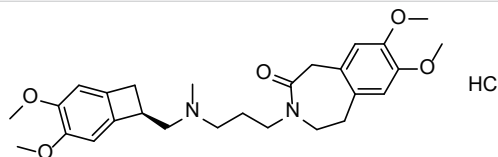
Olmesartan Dimer Ester Impurity

CAS 1040250-19-8
Catalog number: B2694-263390



Dabigatran Impurity K

CAS 211915-00-3
Catalog number: B0043-469635



Ivabradine R-Isomer HCl

CAS 148849-68-7
Catalog number: B2694-473454

Working with BOC Sciences



> 10,000 impurities for 1,700 API species from stock



Ensured quality



Custom synthesis for special impurity needs



Flexible package size



Qualitative and quantitative standards available



Global delivery



Global sourcing with low cost




One on one customer service





BOC Sciences[®]

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