

TheraPure™ phosphoramidites: the ongoing pursuit of excellence

With 25 years of experience manufacturing engineered nucleic acids, we offer phosphoramidites that reflect our combined expertise in protection chemistries, modifications, manufacturing scale-up, and innovative purification strategies. Our Thermo Scientific™ TheraPure™ phosphoramidites are designed for oligonucleotide manufacturers requiring highly defined impurity profiles and strictly controlled processes.

Phosphoramidites, including custom chemistries, are manufactured in our state-of-the-art Milwaukee, Wisconsin facility, with an ISO 9001:2015 certified quality management system. Pairing this certification with our decades of experience partnering with customers to meet their needs enables us to provide a quality management system that goes even further than ISO 9001:2015 in helping to enable our customers to achieve their goals.

Attributes beyond ISO 9001 certification

Excellence meeting customer needs

- Quality agreements
- Security of supply
- High-definition analytics
- Business flexibility—terms and agreements
- Custom product development systems
- Accessibility to highly experienced team
- Localized cross-functional team
- Business continuity

Expertise and capability

- Manufacturing capacity from grams to metric tons
- Technical expertise
 - Nucleoside base, sugar modification and protection chemistries
 - Impurity profiling expertise
 - Phosphitylation and purification of phosphoramidites
- Formulation of reagents
- Custom and modified nucleic acid chemistry
- Dye chemistry

World-class customer service

- Customer allegiance score (CAS) >70%
- Delivery to customer promised date score >98%
- Delivery to customer requested date score >90%
- Response to orders <24 hours
- Quote for standard products ≤48 hours

Critical raw material quality

- 100% QC released
- Acceptance criteria independent of manufacturing
- Diversified supply chain

Analytical capabilities

- Analytical method development
- Method verification/validation
- Test method transfer
- Stability studies

Ordering information

Product	Cat. No.
TheraPure DNA phosphoramidites	
TheraPure dA β -Cyanoethyl Phosphoramidite	27-2030
TheraPure dC β -Cyanoethyl Phosphoramidite	27-2032
TheraPure dG β -Cyanoethyl Phosphoramidite	27-2034
TheraPure DMF dG Phosphoramidite	27-1737
TheraPure dT β -Cyanoethyl Phosphoramidite	27-2036
TheraPure RNA phosphoramidites	
TheraPure PAC-rA Phosphoramidite	27-1803
TheraPure rU Phosphoramidite	27-1804
TheraPure Ac-rC Phosphoramidite	27-1805
TheraPure iPrPAC-rG Phosphoramidite	27-1806
TheraPure Bz-rA Phosphoramidite	27-1903
TheraPure iBu-rG Phosphoramidite	27-1906
TheraPure 2'-OMe phosphoramidites	
TheraPure 2'-OMe-Bz-A Phosphoramidite	27-2042
TheraPure 2'-OMe-Ac-C Phosphoramidite	27-2043
TheraPure 2'-OMe-U Phosphoramidite	27-2044
TheraPure 2'-OMe-iBu-G Phosphoramidite	27-2046
TheraPure 2'-MOE phosphoramidites	
TheraPure 2'-MOE-A Phosphoramidite	27-1019
TheraPure 2'-MOE-5mC Phosphoramidite	27-1020
TheraPure 2'-MOE-G Phosphoramidite	27-1022
TheraPure 2'-MOE-T Phosphoramidite	27-1021
TheraPure 2'-fluoro phosphoramidites	
TheraPure 2'-Fluoro-Bz-A Phosphoramidite	27-1601
TheraPure 2'-Fluoro-U Phosphoramidite	27-1602
TheraPure 2'-Fluoro-Acetyl-C Phosphoramidite	27-1604
TheraPure 2'-Fluoro-iBu-G Phosphoramidite	27-1607

Product	Cat. No.
Fast deprotect DNA phosphoramidites	
PAC-dA Phosphoramidite	27-1723
iBu-dC Phosphoramidite	27-1725
iPrPAC-dG Phosphoramidite	27-1726
DMF-dG Phosphoramidite	27-1737
Ac-dC Phosphoramidite	29-1727
Structural phosphoramidites	
dU Phosphoramidite	27-1738
dI Phosphoramidite	27-1744
N6-Me-dA Phosphoramidite	27-1746
5-Me-dC Phosphoramidite	27-1748
TFA Amino Linker Phosphoramidite	27-1792
Phosphorylating Phosphoramidite	27-1794
5'-Aminohexyl Linker Phosphoramidite	27-0035
N4-Ethyl-dC Phosphoramidite	27-1743
5'-Biotin Phosphoramidite	27-1793
TheraPure locked nucleic acids	
TheraPure Locked Nucleic Acid A (Bz) Phosphoramidite	27-1340
TheraPure Locked Nucleic Acid 5-Me-C (Bz) Phosphoramidite	27-1348
TheraPure Locked Nucleic Acid G (DMF) Phosphoramidite	27-1347
TheraPure Locked Nucleic Acid T Phosphoramidite	27-1346
Standard DNA phosphoramidites	
dA β -Cyanoethyl Phosphoramidite	27-1730
dC β -Cyanoethyl Phosphoramidite	27-1732
dG β -Cyanoethyl Phosphoramidite	27-1734
T β -Cyanoethyl Phosphoramidite	27-1736
5-Me-dC β -Cyanoethyl Phosphoramidite	27-1748

Product	Cat. No.
Standard RNA phosphoramidites	
Bz-rA Phosphoramidite	27-1403
rU Phosphoramidite	27-1404
Ac-rC Phosphoramidite	27-1405
iBu-rG Phosphoramidite	27-1406
Standard 2'-OMe phosphoramidites	
2'-OMe-PAC-A Phosphoramidite	27-1822
2'-OMe-Ac-C β -Cyanoethyl Phosphoramidite	27-1823
2'-OMe-U β -Cyanoethyl Phosphoramidite	27-1825
2'-OMe-iPrPAC-G Phosphoramidite	27-1826
2'-OMe-Bz-A β -Cyanoethyl Phosphoramidite	27-1842
2'-OMe-iBu-G β -Cyanoethyl Phosphoramidite	27-1846
DyLight dye-labeled phosphoramidites	
DyLight DY547 Phosphoramidite	SY6332
DyLight DY647 Phosphoramidite	SY6334
DyLight DY677 Phosphoramidite	SY6336
DyLight 3 Phosphoramidite	SY6333
DyLight 5 Phosphoramidite	SY6335
DyLight Fluorescein Phosphoramidite	27-1606
DyLight FAM-6 Phosphoramidite	27-1608
RNA CPG synthesis supports	
PAC-rA CPG Synthesis Support	SY6503
rU-CPG Synthesis Support	SY6504
Ac-rC CPG Synthesis Support	SY6505
iPrPAC-rG CPG Synthesis Support	SY6506
Succinates	
Bz-dA Succinate	27-0030
Bz-dC Succinate	27-0032
iBu-dG Succinate	27-0034
T Succinate	27-0036

Learn more at thermofisher.com/amidites