



Cerilliant Quality

ISO GUIDE 34

ISO/IEC 17025

ISO 13485

ISO 15194

ISO 9001

GMP/GLP

Zoe Ruan, PhD
QUALITY CONTROL

Cerilliant Certified Reference Materials
For MS Analysis

Cerilliant – When Results Matter.

**Internal
Standards**

Cerilliant in EUROPE: +44 1747 833312 sigma-aldrich.com/cerilliant

a SIGMA-ALDRICH company

Cerilliant Certified Reference Materials

Alcohol

Ethyl-β-D-glucuronide-D ₅ , 100 µg/mL	E-048
Ethyl-β-D-glucuronide-D ₅ , 1.0 mg/mL	E-063
Ethyl-D ₅ sulfate sodium salt, 1.0 mg/mL	E-066

Amphetamines

(±)-Amphetamine-D ₅ (deuterium label on ring), 100 µg/mL	A-002
(±)-Amphetamine-D ₅ (deuterium label on side chain), 100 µg/mL	A-005
(±)-Amphetamine-D ₅ (deuterium label on side chain), 1.0 mg/mL	A-013
(±)-Amphetamine-D ₁₁ , 100 µg/mL	A-016
(±)-Amphetamine-D ₈ , 100 µg/mL	A-017
(±)-Amphetamine-D ₈ , 1.0 mg/mL	A-018
(±)-Amphetamine-D ₁₁ , 1.0 mg/mL	A-019
(±)-Amphetamine-D ₁₀ , 100 µg/mL	A-038
(±)-Amphetamine-D ₆ , 100 µg/mL	A-044
(±)-Amphetamine-D ₆ , 1.0 mg/mL	A-045
5-APB-D ₅ HCl, 100 µg/mL	A-108
New 6-APB-D ₅ HCl, 100 µg/mL	A-112
Butylone-D ₃ HCl, 100 µg/mL	B-046
Buphedrone Ephedrine Metabolite-D ₃ HCl, 100 µg/mL	B-051
(±)-Bromo-DRAGONFLY-D ₅ HCl, 100 µg/mL	B-057
New 25B-NBOMe-D ₃ HCl, 100 µg/mL	B-062
Benzyl piperazine-D ₇ diHCl, 100 µg/mL	B-907
Clenbuterol-D ₉ HCl, 100 µg/mL	C-081
mCPP-D ₈ HCl, 100 µg/mL	C-112
New 25C-NBOMe-D ₃ HCl, 100 µg/mL	C-132
New 2C-B-FLY-D ₄ HCl, 100 µg/mL	C-133
3,4-Dimethylmethcathinone Norephedrine Metabolite-D ₄ HCl, 100 µg/mL	D-097
New 2C-D- ¹³ C ₃ HCl, 100 µg/mL	D-106
Ethylone-D ₅ HCl, 100 µg/mL	E-072
(±)-N-Ethylcathinone Ephedrine Metabolite-D ₅ HCl, 100 µg/mL	E-085
Eutylone-D ₅ HCl, 100 µg/mL	E-091
New 2C-E- ¹³ C ₃ HCl, 100 µg/mL	E-107
New Escaline-D ₃ , 100 µg/mL	E-112
(±)-4-Fluoroamphetamine-D ₅ HCl (deuterium label on side chain), 100 µg/mL	F-022
(±)-2-Fluoroamphetamine-D ₅ HCl (deuterium label on side chain), 100 µg/mL	F-023
(±)-4-Fluoromethamphetamine-D ₅ HCl (deuterium label on side chain), 100 µg/mL	F-024
(±)-2-Fluoromethamphetamine-D ₅ HCl (deuterium label on side chain), 100 µg/mL	F-025
(±)-4-Fluoroephedrine-D ₃ HCl (Flephedrone Metabolite), 100 µg/mL	F-028
25HNBOMe-D ₃ HCl, 100 µg/mL	I-017
2C- ¹³ C ₃ HCl, 100 µg/mL	I-018
Lisdexamfetamine-D ₄ dimesylate, 100 µg/mL	I-028
(±)-Methamphetamine-D ₅ , 100 µg/mL	M-004
(±)-MDA-D ₅ , 100 µg/mL	M-010
(±)-MDMA-D ₅ , 100 µg/mL	M-011
(±)-Methamphetamine-D ₈ , 100 µg/mL	M-016
(±)-Methamphetamine-D ₅ , 1.0 mg/mL	M-023
(±)-MDA-D ₅ , 1.0 mg/mL	M-027
(±)-MDMA-D ₅ , 1.0 mg/mL	M-029
(±)-Methamphetamine-D ₈ , 1.0 mg/mL	M-034
(±)-Methamphetamine-D ₁₁ , 1.0 mg/mL	M-060
(±)-Methamphetamine-D ₁₁ , 100 µg/mL	M-059

(±)-MDEA-D ₅ , 100 µg/mL	M-067
(±)-MDEA-D ₅ , 1.0 mg/mL	M-068
(±)-MDEA-D ₆ , 100 µg/mL	M-081
(±)-MDEA-D ₆ , 1.0 mg/mL	M-082
(±)-Methamphetamine-D ₉ , 100 µg/mL	M-090
(±)-Methamphetamine-D ₉ , 1.0 mg/mL	M-091
(±)-Methamphetamine-D ₁₄ , 100 µg/mL	M-092
(±)-Methamphetamine-D ₁₄ , 1.0 mg/mL	M-093
Mephedrone-D ₃ HCl, 100 µg/mL	M-139
Methylone-D ₃ HCl, 100 µg/mL	M-141
(±)-4-Methylephedrine-D ₃ HCl (Mephedrone Metabolite), 100 µg/mL	M-160
(±)-4-Methyl-N-ethyl-norephedrine-D ₅ HCl, 100 µg/mL	M-161
DMAA-D ₄ HCl, 100 µg/mL	M-174
(±)-MBDB-D ₅ HCl, 100 µg/mL	M-186
(±)-Methcathinone-D ₃ HCl, 100 µg/mL	M-189
(±)-Norpseudoephedrine-D ₃ HCl, 100 µg/mL	N-087
New 2C-N- ¹³ C ₃ HCl, 100 µg/mL	N-096
Pseudoephedrine-D ₃ hydrochloride, 100 µg/mL	P-056
(±)-Phenylephrine-D ₃ HCl, 100 µg/mL	P-079
Pentedrone Norephedrine Metabolite-D ₅ HCl, 100 µg/mL	P-094
Pentylone-D ₃ HCl, 100 µg/mL	P-102
2C-T-7- ¹³ C ₃ HCl, 100 µg/mL	T-089
New 2C-T-4- ¹³ C ₃ HCl, 100 µg/mL	T-090
New 2C-T-2- ¹³ C ₃ HCl, 100 µg/mL	T-091
TFMPP-D ₄ HCl, 100 µg/mL	T-920

Analgesics (non-opiates)

New Acetyl fentanyl- ¹³ C ₆ , 100 µg/mL	A-110
New AH-7921-D ₃ HCl, 100 µg/mL	A-114
New Acetyl norfentanyl- ¹³ C ₆ , 100 µg/mL	A-116
O-Desmethyl-cis-tramadol-D ₆ HCl, 100 µg/mL	D-058
EDDP-D ₃ perchlorate (Methadone metabolite), 100 µg/mL	E-021
EDDP-D ₃ perchlorate (Methadone metabolite), 1.0 mg/mL	E-062
Fentanyl-D ₅ , 100 µg/mL	F-001
(±)-Methadone-D ₃ , 100 µg/mL	M-008
(±)-Methadone-D ₃ , 1.0 mg/mL	M-021
Meperidine-D ₄ , 100 µg/mL	M-036
Meperidine-D ₄ , 1.0 mg/mL	M-038
(±)-Methadone-D ₉ , 100 µg/mL	M-088
(±)-Methadone-D ₉ , 1.0 mg/mL	M-089
Normeperidine-D ₄ , 100 µg/mL	N-020
Norfentanyl-D ₅ oxalate, 100 µg/mL	N-030
Norfentanyl-D ₅ oxalate, 1.0 mg/mL	N-055
Nortilidine-D ₃ HCl, 100 µg/mL	N-062
Normeperidine-D ₄ , 1.0 mg/mL	N-083
(±)-Norpropoxyphene-D ₅ maleate, 100 µg/mL	N-904
(±)-Norpropoxyphene-D ₅ maleate, 1.0 mg/mL	N-919
(±)-Pentazocine- ¹³ C ₃ HCl, 100 µg/mL	P-084
(±)-Propoxyphene-D ₅ , 100 µg/mL	P-901
(±)-Propoxyphene-D ₅ , 1.0 mg/mL	P-904
Acetaminophen-D ₄ , 100 µg/mL	P-909
(±)-Propoxyphene-D ₁₁ , 100 µg/mL	P-913
(±)-Propoxyphene-D ₁₁ , 1.0 mg/mL	P-914
Acetaminophen-D ₄ , 1.0 mg/mL	P-917
Sufentanil-D ₅ , 100 µg/mL	S-018
Tramadol- ¹³ C ₃ HCl, 1.0 mg/mL	T-020

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DID YOU KNOW?

Cerilliant's organic chemistry experts synthesize over 90% of the stable isotope labeled raw materials used in our certified Snap-N-Spike® solution standards, ensuring availability and quality from start to finish.

Tramadol- ¹³ C, D ₃ HCl, 100 µg/ml	T-029
Tapentadol-D ₃ HCl, 100 µg/ml	T-059
Tapentadol-D ₃ -β-D-glucuronide, 100 µg/ml	T-067
Tilidine-D ₆ HCl, 100 µg/ml	T-069

Anesthetics

GHB-D ₆ Sodium Salt, 100 µg/ml	G-003
GHB-D ₆ Sodium Salt, 1.0 mg/ml	G-006
Ketamine-D ₄ HCl, 100 µg/ml	K-003
New Methohexamine-D ₃ HCl, 100 µg/ml	M-187
(±)Norketamine-D ₄ HCl, 100 µg/ml	N-037
Propofol-D ₁₇ , 100 µg/ml	P-077

Anticonvulsants/Antiepileptics

Carbamazepine-D ₁₀ , 100 µg/ml	C-094
Carbamazepine-10,11-epoxide- ¹³ C ₆ , 100 µg/ml	C-128
Carbamazepine- ¹³ C ₆ , 100 µg/ml	C-136
10,11-Dihydro-10-Hydroxycarbamazepine- ¹³ C ₆ , 100 µg/ml	D-104
Gabapentin-D ₁₀ , 1.0 mg/ml	G-017
New Gabapentin- ¹³ C ₃ , 100 µg/ml	G-018
Gabapentin-D ₁₀ , 100 µg/ml	G-901
Levetiracetam-D ₆ , 100 µg/ml	L-023
Lamotrigine- ¹³ C, ¹⁵ N ₄ , 500 µg/ml	L-022
Lacosamide- ¹³ C, D ₃ , 100 µg/ml	L-027
Levetiracetam-D ₆ , 1.0 mg/ml	L-031
Lacosamide- ¹³ C, D ₃ , 1.0 mg/ml	L-032
Oxcarbazepine- ¹³ C ₆ , 100 µg/ml	O-039
Phenytoin-D ₁₀ , 100 µg/ml	P-067
Pregabalin-D ₆ , 100 µg/ml	P-072
Pregabalin-D ₆ , 1.0 mg/ml	P-096
Pregabalin- ¹³ C ₃ , 100 µg/ml	P-106
Retigabine-D ₄ , 100 µg/ml	R-019
Topiramate-D ₁₂ , 100 µg/ml	T-041
Tiagabine-D ₆ HCl, 100 µg/ml	T-082
Valproic Acid-D ₆ , 1.0 mg/ml	V-029
Zonisamide- ¹³ C ₆ , 100 µg/ml	Z-006

Antidepressants

Amitriptyline-D ₃ HCl, 1.0 mg/ml	A-085
New Amitriptyline-D ₃ HCl, 1.0 mg/ml	A-121
(±)Bupropion-D ₆ HCl, 100 µg/ml	B-052
Bupirone-D ₆ HCl, 100 µg/ml	B-055
Citalopram-D ₆ HBr, 100 µg/ml	C-090
Clomipramine-D ₃ HCl, 100 µg/ml	C-116
Doxepin-D ₃ HCl (cis/trans), 100 µg/ml	D-060
Duloxetine-D ₃ HCl, 100 µg/ml	D-068
N-Desmethylocitalopram-D ₃ HCl, 100 µg/ml	D-074
N-Desmethyldoxepin-D ₃ HCl (cis/trans), 100 µg/ml	D-075
New N-Desmethyloclopramine-D ₃ HCl, 100 µg/ml	D-113
New N-Desmethyltrimipramine-D ₃ HCl, 100 µg/ml	D-114
New Doxepin-D ₃ HCl (cis/trans), 1.0 mg/ml	D-115
New Desipramine-D ₃ HCl, 1.0 mg/ml, <i>Coming soon</i>	D-116
Desipramine-D ₃ HCl, 100 µg/ml	D-903
New Fluoxetine-D ₆ oxalate, 1.0 mg/ml	F-038
Fluoxetine-D ₆ Oxalate, 100 µg/ml	F-919
(±)Hydroxybupropion-D ₆ , 100 µg/ml	H-062
Imipramine-D ₃ maleate, 100 µg/ml	I-903
Mianserin-D ₃ , 100 µg/ml	M-901
Norsertaline- ¹³ C ₆ HCl, 100 µg/ml	N-084

Nortriptyline-D ₃ HCl, 1.0 mg/ml	N-090
New Norfluoxetine-D ₆ Oxalate, 1.0 mg/ml	N-102
Nortriptyline-D ₃ HCl, 100 µg/ml	N-902
Norfluoxetine-D ₆ Oxalate, 100 µg/ml	N-922
Protriptyline-D ₃ HCl, 100 µg/ml	P-088
Paroxetine-D ₆ maleate, 100 µg/ml	P-915
Selegiline-D ₈ , 100 µg/ml	S-004
Sertraline-D ₃ HCl, 100 µg/ml	S-026
Trazodone-D ₆ HCl, 100 µg/ml	T-079
Trimipramine-D ₃ maleate, 100 µg/ml	T-904
Venlafaxine-D ₆ HCl, 100 µg/ml	V-009
(±)-O-Desmethylvenlafaxine-D ₆ , 100 µg/ml	V-027
Vilazodone-D ₄ HCl, 100 µg/ml	V-028
New Venlafaxine-D ₆ HCl, 1.0 mg/ml	V-037

Antifungals

New Fluconazole- ¹³ C ₃ HCl, 1.0 mg/ml	F-035
New Itraconazole-D ₄ , 1.0 mg/ml	I-021
New Ketoconazole-D ₄ , 1.0 mg/ml	K-005
New Posaconazole-D ₄ , 1.0 mg/ml, <i>Coming soon</i>	P-108
New Voriconazole-D ₃ , 1.0 mg/ml	V-036
Hydroxyitraconazole-D ₄ , <i>Coming Soon</i>	H-111

Antihistamines

Chlorpheniramine-D ₆ maleate, 100 µg/ml	C-086
Diphenhydramine-D ₃ , 100 µg/ml	D-017
Doxylamine-D ₅ , 100 µg/ml	D-051
Pheniramine-D ₆ maleate, 100 µg/ml	P-062
New Promethazine-D ₃ HCl, 100 µg/ml in 1% 1 M HCl	P-112
Promethazine-D ₃ HCl, 5 mg	P-910

Antipsychotics

Aripiprazole-D ₈ , 100 µg/ml	A-081
Clozapine-D ₄ , 100 µg/ml	C-091
Chlorpromazine-D ₃ maleate, 100 µg/ml	C-107
N-Desmethylolanzapine-D ₈ dihydrochloride, 100 µg/ml	D-070
Haloperidol-D ₄ , 100 µg/ml	H-002
9-Hydroxyrisperidone-D ₄ , 100 µg/ml	H-095
New lloperidone- ¹³ C, D ₃ , 100 µg/ml	I-013
New lurasidone-D ₈ HCl, 100 µg/ml	L-035
Olanzapine-D ₈ , 100 µg/ml	O-035
Quetiapine-D ₈ hemifumarate, 100 µg/ml	Q-002
Risperidone-D ₄ , 100 µg/ml	R-013

Barbiturates

New Amobarbital-D ₅ , 100 µg/ml	A-102
Butalbital-D ₅ , 100 µg/ml	B-005
Butalbital-D ₅ , 1.0 mg/ml	B-030
Methohexital-D ₅ , 100 µg/ml	M-079
Phenobarbital-D ₅ (deuterium label on side chain), 100 µg/ml	P-004
Pentobarbital-D ₅ , 100 µg/ml	P-009
Pentobarbital-D ₅ , 1.0 mg/ml	P-013
Phenobarbital-D ₅ (deuterium label on side chain), 1.0 mg/ml	P-017
Phenobarbital-D ₅ (deuterium label on ring), 100 µg/ml	P-018
Phenobarbital-D ₅ (deuterium label on ring), 1.0 mg/ml	P-019
Secobarbital-D ₅ , 100 µg/ml	S-001
Secobarbital-D ₅ , 1.0 mg/ml	S-048

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DID YOU KNOW ? Cerilliant's synthetic design is dictated by the intended end use of each product including incorporation of label position based on mass spectral fragmentation.

Benzodiazepines

Alprazolam-D ₅ , 100 µg/mL	A-902
α-Hydroxyalprazolam-D ₅ , 100 µg/mL	A-904
α-Hydroxyalprazolam-D ₅ , 1.0 mg/mL	A-908
Alprazolam-D ₅ , 1.0 mg/mL	A-910
7-Aminoclonazepam-D ₄ , 100 µg/mL	A-917
New 7-Aminoflunitrazepam- ¹³ C ₆ , 100 µg/mL, <i>Coming soon</i>	A-111
7-Aminoflunitrazepam-D ₇ , 100 µg/mL	A-921
7-Aminoclonazepam-D ₄ , 1.0 mg/mL	A-924
7-Aminoflunitrazepam-D ₇ , 1.0 mg/mL	A-925
Clobazam- ¹³ C ₆ , 100 µg/mL	C-129
Clonazepam-D ₄ , 100 µg/mL	C-905
Clonazepam-D ₄ , 1.0 mg/mL	C-906
Chlordiazepoxide-D ₅ , 100 µg/mL	C-912
Demoxepam-D ₅ , 100 µg/mL	D-080
N-Desmethylclobazam- ¹³ C ₆ , 100 µg/mL	D-094
Diazepam-D ₅ , 100 µg/mL	D-902
Diazepam-D ₅ , 1.0 mg/mL	D-910
Desalkylflurazepam-D ₄ , 100 µg/mL	D-924
N-Desmethylflunitrazepam-D ₄ , 100 µg/mL	D-925
Etizolam-D ₃ , 100 µg/mL	E-082
Estazolam-D ₅ , 100 µg/mL	E-903
Flunitrazepam-D ₇ , 100 µg/mL	F-915
New 3-Hydroxyphenazepam-D ₄ , 100 µg/mL	H-114
2-Hydroxyethylflurazepam-D ₄ , 100 µg/mL	H-919
α-Hydroxymidazolam-D ₄ , 100 µg/mL	H-921
2-Hydroxyethylflurazepam-D ₄ , 1.0 mg/mL	H-923
Lorazepam-D ₄ , 100 µg/mL	L-902
Lorazepam-D ₄ , 1.0 mg/mL	L-911
Midazolam-D ₄ maleate, 100 µg/mL	M-918
Norchlordiazepoxide-D ₅ , 100 µg/mL	N-101
Nordiazepam-D ₅ , 100 µg/mL	N-903
Nordiazepam-D ₅ , 1.0 mg/mL	N-911
Oxazepam-D ₅ glucuronide, 100 µg/mL	O-038
Oxazepam-D ₅ , 100 µg/mL	O-901
Oxazepam-D ₅ , 1.0 mg/mL	O-904
Phenazepam-D ₄ , 100 µg/mL	P-093
Prazepam-D ₅ , 100 µg/mL	P-905
Temazepam-D ₅ , 100 µg/mL	T-902
Triazolam-D ₄ , 100 µg/mL	T-908
α-Hydroxytriazolam-D ₄ , 100 µg/mL	T-909
Temazepam-D ₅ , 1.0 mg/mL	T-912
α-Hydroxytriazolam-D ₄ , 1.0 mg/mL	T-916

Cannabinoids

Cannabidiol-D ₃ , 100 µg/mL	C-084
Cannabinol-D ₃ , 100 µg/mL	C-115
(±)-11-Hydroxy-Δ ⁹ -THC-D ₃ , 100 µg/mL	H-041
JWH-018 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-039
JWH-073 3-Hydroxybutyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-040
New JWH-250 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-055
New JWH-122 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-056
New JWH-210 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-057
New AM2201 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-058

New UR-144 5-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-079
XLR-11 4-Hydroxypentyl metabolite-D ₅ (indole-D ₅), 100 µg/mL	S-081
(-)-Δ ⁹ -THC-D ₃ , 100 µg/mL	T-003
(±)-11-nor-9-Carboxy-Δ ⁹ -THC-D ₃ , 100 µg/mL	T-004
(±)-11-nor-9-Carboxy-Δ ⁹ -THC-D ₆ , 100 µg/mL	T-007
(±)-11-nor-9-Carboxy-Δ ⁹ -THC-D ₃ , 1.0 mg/mL	T-008
New (±)-11-nor-9-Carboxy-Δ ⁹ -THC-D ₆ , 1.0 mg/mL	T-009
(-)-Δ ⁹ -THC-D ₃ , 1.0 mg/mL	T-011
New (±)-cis-11-Nor-9-carboxy-Δ ⁹ -THC-D ₃ glucuronide, 100 µg/mL	T-080

Cardiac Drugs

Atropine-D ₃ , 100 µg/mL	A-077
Amiodarone-D ₄ HCl, 100 µg/mL	A-083
N-Desethylamiodarone-D ₄ HCl, 100 µg/mL	D-056
New Dabigatran-D ₃ , 100 µg/mL	D-099
Propranolol-D ₇ (ring-D ₇), 100 µg/mL	P-085

Catecholamines

Dopamine-D ₄ HCl, 100 µg/mL	D-072
(±)-Epinephrine-D ₆ , 100 µg/mL	E-077
VMA-D ₃ (ring-D ₃), 100 µg/mL	H-091
HVA-D ₅ , 100 µg/mL	H-092
5-HIAA-D ₅ , 100 µg/mL	H-093
(±)-Metanephrine-D ₃ HCl, 100 µg/mL	M-148
(±)-Normetanephrine-D ₃ HCl, 100 µg/mL	N-068
(±)-Norepinephrine-D ₆ HCl, 100 µg/mL	N-069

Chemical Warfare

Aminomethylphosphonic acid- ¹³ C, ¹⁵ N, D ₂ , 100 µg/mL	CDNLM-6786-1.2*
Ethyl-D ₅ hydrogen methylphosphonate, 100 µg/mL	DLM-6098-1.2*
Methylphosphonic acid- ¹³ C, D ₃ , 100 µg/mL, <i>Coming soon</i>	CDLM-6100-1.2*
Methylphosphonic acid (methyl-D ₃ , 98%), 100 µg/mL	DLM-6196-1.2*
O,O-Diethyl hydrogen thiophosphate, potassium salt (diethyl-D ₁₀ , 98%), 100 µg/mL	DLM-4852-1.2*
Pinacolyl hydrogen methylphosphonate (trimethylpropyl- ¹³ C ₆), 100 µg/mL	CLM-6620-1.2*
Diisopropyl methylphosphonate-D ₁₄ , 1000 µg/mL	ERD-086
Isopropyl methylphosphonic acid-D ₇ , 1000 µg/mL	ERI-017

Cocaine Analogs

Benzoyllecgonine-D ₃ , 100 µg/mL	B-001
Benzoyllecgonine-D ₃ , 1.0 mg/mL	B-008
Benzoyllecgonine-D ₈ , 100 µg/mL	B-013
Benzoyllecgonine-D ₈ , 1.0 mg/mL	B-014
Cocaine-D ₃ , 100 µg/mL	C-004
Cocacethylene-D ₃ (Benzoyllecgonine ethyl ester-D ₃), 100 µg/mL	C-009
Cocaine-D ₃ , 1.0 mg/mL	C-014
Cocacethylene-D ₈ (Benzoyllecgonine ethyl ester-D ₈), 100 µg/mL	C-024
Cocaine N-oxide-D ₃ HCl (Not suitable for use with GC/MS), 100 µg/mL	C-120
Ecgonine methyl ester-D ₃ , 100 µg/mL	E-002
Ecgonine-D ₃ HCl, 100 µg/mL	E-003
Norcocaine-D ₃ HCl, 100 µg/mL	N-034

Hallucinogens

New 7-Hydroxymitragynine-D ₃ , 100 µg/mL	H-109
LSD-D ₃ , 100 µg/mL	L-002
LAMPA, 1.0 mg/mL	L-004
LAMPA, 25 µg/mL	L-007

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Mescaline-D ₉ HCl, 100 µg/mL	M-051
New /Mitragnine-D ₃ , 100 µg/mL	M-182
PCP-D ₅ , 100 µg/mL	P-003
PCP-D ₅ , 1.0 mg/mL	P-006
Psilocin-D ₁₀ , 5 mg	P-049
New Psilocin-D ₁₀ , 100 µg/mL	P-099
New Psilocybin-D ₄ , 100 µg/mL	P-113

Immunosuppressants

Ascomycin, 1.0 mg/mL	A-094
Cyclosporin D, 1.0 mg/mL	C-108
Everolimus-D ₄ , 100 µg/mL	E-070
Mycophenolic acid-D ₃ , 100 µg/mL	M-137
New /Mycophenolic acid-D ₃ , 1.0 mg/mL	M-180

Multi-Component Drug Standards and Kits

Benzodiazepine Internal Standard-3, 0.5-1.0 mg/mL	B-905
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Nonbenzodiazepines

New /N-Desmethylzopiclone-D ₄ , 100 µg/mL	D-112
Zolpidem-D ₆ (Not suitable for use with GC/MS), 100 µg/mL	Z-001
New Zolpidem-D ₇ (Suitable for use with GC/MS or LC/MS), 100 µg/mL	Z-008
Zaleplon-D ₄ , 100 µg/mL	Z-010
New Zopiclone-N-Oxide-D ₄ , 100 µg/mL	Z-014
Zopiclone-D ₄ , 100 µg/mL	Z-902

NSAIDs

4'-Hydroxydiclofenac- ¹³ C ₆ , 100 µg/mL	H-053
Salicylic acid-D ₄ , 100 µg/mL	S-042

Opiates

ó-Acetylmorphine-D ₃ , 100 µg/mL	A-006
ó-Acetylmorphine-D ₃ , 1.0 mg/mL	A-010
ó-Acetylmorphine-D ₆ , 100 µg/mL	A-026
ó-Acetylmorphine-D ₆ , 1.0 mg/mL	A-027
Buprenorphine-D ₄ , 100 µg/mL	B-901
Buprenorphine-D ₄ , 1.0 mg/mL	B-908
Codeine-D ₃ , 100 µg/mL	C-005
Codeine-D ₃ , 1.0 mg/mL	C-007
Codeine-D ₃ , 100 µg/mL	C-039
Codeine-D ₆ , 1.0 mg/mL	C-041
Codeine-D ₆ , 100 µg/mL	C-040
New Codeine-ó-β-D-glucuronide-D ₃ , 100 µg/mL	C-138
Dihydrocodeine-D ₆ HCl, 100 µg/mL	D-021
Dextrophan-D ₃ , 100 µg/mL	D-041
Dextromethorphan-D ₃ , 100 µg/mL	D-071
Dihydrocodeine-D ₆ HCl, 1.0 mg/mL	D-087
New Desomorphine-D ₃ , 100 µg/mL	D-103
Hydrocodone-D ₃ , 100 µg/mL	H-005
Hydromorphone-D ₃ , 100 µg/mL	H-006
Hydrocodone-D ₃ , 1.0 mg/mL	H-008
Hydromorphone-D ₃ , 1.0 mg/mL	H-010
Heroin-D ₉ , 100 µg/mL	H-036
Heroin-D ₉ , 1.0 mg/mL	H-037
Hydrocodone-D ₆ , 100 µg/mL	H-047
Hydrocodone-D ₆ , 1.0 mg/mL	H-048
Hydromorphone-D ₆ , 100 µg/mL	H-049
Hydromorphone-D ₆ , 1.0 mg/mL	H-050
Hydromorphone-D ₄ , 100 µg/mL	H-078

óα/β-Hydroxyoxymorphone-D ₃ , 100 µg/mL	H-098
New Levorphanol-D ₃ , 100 µg/mL	L-034
Morphine-D ₃ , 100 µg/mL	M-003
Morphine-D ₃ , 1.0 mg/mL	M-006
Morphine-3-β-D-glucuronide-D ₃ , 100 µg/mL	M-017
Morphine-D ₆ , 100 µg/mL	M-085
Morphine-D ₆ , 1.0 mg/mL	M-086
Morphine-6-β-D-glucuronide-D ₃ , 100 µg/mL	M-120
Noroxycodone-D ₃ HCl, 100 µg/mL	N-032
Noroxycodone-D ₃ HCl, 1.0 mg/mL	N-033
Naltrexone-D ₃ , 100 µg/mL	N-047
Norhydrocodone-D ₃ HCl, 100 µg/mL	N-054
New Nalbuphine-D ₃ , 100 µg/mL	N-056
Naloxone-D ₅ , 100 µg/mL	N-063
óβ-Naltrexol-D ₃ , 100 µg/mL	N-081
Norcodeine-D ₃ , 1.0 mg/mL	N-082
New Norbuprenorphine glucuronide-D ₃ , 100 µg/mL	N-097
Norbuprenorphine-D ₃ , 100 µg/mL	N-920
Norbuprenorphine-D ₃ , 1.0 mg/mL	N-921
Oxymorphone-D ₃ , 100 µg/mL	O-003
Oxycodone-D ₃ , 100 µg/mL	O-005
Oxycodone-D ₃ , 1.0 mg/mL	O-006
Oxycodone-D ₆ , 100 µg/mL	O-007
Oxycodone-D ₆ , 1.0 mg/mL	O-008
Oxymorphone-D ₃ , 1.0 mg/mL	O-019
Oxymorphone-D ₃ -3-β-D-glucuronide (Internal Standard), 100 µg/mL	O-031
New Oxycodone-D ₃ (N-methyl-D ₃), 100 µg/mL	O-041
New Oxycodone-D ₃ (N-methyl-D ₃), 1.0 mg/mL	O-042

Other Drugs

N-Desethylamodiaquine-D ₅ dihydrochloride, 100 µg/mL	D-040
Methotrexate-D ₃ , 100 µg/mL	M-153
Theophylline-D ₆ , 100 µg/mL	T-044

Skeletal Muscle Relaxants (non-benzodiazepine)

Carisoprodol-D ₇ , 100 µg/mL	C-083
Cyclobenzaprine-D ₃ HCl, 100 µg/mL	C-114
Carisoprodol-D ₇ , 1.0 mg/mL	C-123
New Carisoprodol- ¹³ C ₃ , 100 µg/mL	C-134
N-Desmethylcyclobenzaprine-D ₃ HCl, 100 µg/mL	D-089
ó-Hydroxychlorzoxazone-D ₂ , ¹⁵ N, 100 µg/mL	H-064
Methaqualone-D ₇ , 100 µg/mL	M-014
Meprobamate-D ₇ (2-methyl-1,3-propanediol-D ₇), 1.0 mg/mL	M-073
Meprobamate-D ₇ (propyl-D ₇), 100 µg/mL	M-131
Metaxalone-D ₆ , 100 µg/mL	M-143
Meprobamate- ¹³ C ₃ , 100 µg/mL	M-178
Meprobamate-D ₃ , 100 µg/mL	M-181

Steroids/Hormones

Androstene-3,17-dione-2,3,4- ¹³ C ₃ , 100 µg/mL	A-084
Androsterone-D ₄ glucuronide, 100 µg/mL	A-099
Cortisol-D ₄ (9,11,12,12-D ₄), 100 µg/mL	C-113
DHEA-D ₅ (2,2,3,4,4-D ₅), 100 µg/mL	D-064
DHEAS-D ₅ (2,2,3,4,4-D ₅), 100 µg/mL	D-066
21-Deoxycortisol-D ₈ (2,2,4,6,6,21,21-D ₈), 100 µg/mL	D-076
5α-Dihydrotestosterone-D ₃ (16,16,17-D ₃), 100 µg/mL	D-077
11-Deoxycortisol-D ₅ (2,2,4,6,6-D ₅), 100 µg/mL	D-078
17β-Estradiol-D ₅ , 100 µg/mL	E-061
17β-Estradiol-2,3,4- ¹³ C ₃ , 100 µg/mL	E-073

Unless otherwise specified the nominal concentration for all salt forms of the analyte is adjusted for the acid content. This applies to Cerilliant solution standards only.

Please refer to the Certificate of Analysis (COA) for all product information including diluent and list of components. *Third party products distributed by Cerilliant and provided with the manufacturer's COA.

New	Estrone-2,3,4- ¹³ C ₃ , 100 µg/mL	E-108
	17α-Hydroxyprogesterone-D ₈ (2,2,4,6,6,21,21,21-D ₈), 100 µg/mL	H-096
	17α-Hydroxyprogesterone-2,3,4- ¹³ C ₃ , 100 µg/mL	H-100
New	17α-Hydroxypregnenolone- ¹³ C ₂ ,D ₂ , 100 µg/mL, <i>Coming soon</i>	H-112
	Methyl-D ₃ -malonic acid, 1.0 mg/mL	M-105
	Methylmalonic acid- ¹³ C ₄ , 100 µg/mL	M-173
	Progesterone-D ₉ , 100 µg/mL	P-070
New	Pregnenolone- ¹³ C ₂ ,D ₂ , 100 µg/mL, <i>Coming soon</i>	P-109
	3'-Hydroxystanozolol-D ₃	S-070
	Stanozolol-D ₃ , 100 µg/mL	S-910
	6β-Hydroxytestosterone-D ₃ , 100 µg/mL	T-034
	Testosterone-D ₃ (16,16,17-D ₃), 100 µg/mL	T-046
	Testosterone-2,3,4- ¹³ C ₃ , 100 µg/mL	T-070

Stimulants (non-amphetamine)

	Atomoxetine-D ₇ HCl, 100 µg/mL	A-093
	Anabasine-D ₄ HCl, 100 µg/mL	A-100
	(±)Cotinine-D ₃ , 1.0 mg/mL	C-035
	(±)Cotinine-D ₃ , 100 µg/mL	C-017
	Caffeine- ¹³ C ₃ , 1.0 mg/mL	C-082
	trans-3'-Hydroxycotinine-D ₃ , 100 µg/mL	E-108
	Modafinil-D ₁₀ , 100 µg/mL	M-103
	Methylphenidate-D ₉ HCl, 100 µg/mL	M-127
	MDPV-D ₈ , 100 µg/mL	M-150
	MDPBP-D ₈ HCl, 100 µg/mL	M-175
	MDPPP-D ₈ HCl, 100 µg/mL	M-177
New	(±)threo-Methylphenidate-D ₄ HCl, 100 µg/mL, <i>Coming soon</i>	M-185
	(±)Nornicotine-D ₄ , 100 µg/mL	N-072
	Naphyrone-D ₅ HCl, 100 µg/mL	N-085
	(R,S)-Norcotinine- ¹³ C ₃ , 100 µg/mL	N-095
	α-PVP-D ₈ HCl, 100 µg/mL	P-101
	(±)threo-Ritalinic acid-D ₁₀ HCl, 100 µg/mL	R-014
New	(±)threo-Ritalinic acid-D ₄ HCl, 100 µg/mL, <i>Coming soon</i>	R-025
New	(±)threo-Ritalinic acid-D ₁₀ HCl, 1.0 mg/mL	R-027

Thyroid Hormones

	T4- ¹³ C ₆ , 100 µg/mL	T-076
	T3- ¹³ C ₆ , 100 µg/mL	T-077
	Reverse T3- ¹³ C ₆ , 100 µg/mL	T-078

Vitamin D

	D ₃ -Vitamin D2 (6,19,19-D ₃), 100 µg/mL	V-026
	D ₆ -25-Hydroxyvitamin D3 (26,26,26,27,27,27-D ₆), 50 µg/mL	H-074
New	1,25-Dihydroxyvitamin D3- ¹³ C ₃ (25,26,27- ¹³ C ₃), 5 µg/mL	H-107

Vitamin E

New	(±)α-Tocopherol-D ₆ (Vitamin E-D ₆), 500 µg/mL	V-010
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Weight-Loss Drugs (non-amphetamine)

	Diethylpropion-D ₁₀ HCl, 100 µg/mL	D-122
	1S,2R(+)-Ephedrine-D ₃ HCl, 100 µg/mL	E-025
	1S,2R(+)-Ephedrine-D ₃ HCl, 1.0 mg/mL	E-026
	(±)Norephedrine-D ₃ hydrochloride, 1.0 mg/mL	N-043
	Phentermine-D ₅ HCl, 100 µg/mL	P-034

CERILLIANT – SPEAKING YOUR LANGUAGE

Dedicated international team of
Analytical Standards specialists.

COUNTRY	TELEPHONE
FRANCE	+33 4 74 82 29 49
ITALY	+39 0233 417 309
GERMANY	+49 896513 1795
NETHERLANDS	+31 786 205 496
SPAIN	+34 915 453 046
UK and OTHER COUNTRIES	+44 1747 833312

CerilliantEU@sial.com

