

TOXICOLOGY



IsoSciences: Specialists in Isotopically Labeled Internal Standards

IsoSciences has launched a new product line of labeled internal standards to be used for LC-MS/MS and GC-MS/MS toxicology analysis. As an innovator of ^{13}C and ^{15}N labeled vitamins, steroids and metabolites, IsoSciences is excited to use this expertise to supply the toxicology market with improved internal standards.

^{13}C and ^{15}N Toxicology Internal Standard Advantages:

- Co-elute with analyte
- Corrects for sample to sample matrix variation
- No loss of deuterium on the instrument or in solution
- Offered in ready to use DEA exempt solutions

NEW Toxicology Internal Standards Now Available:

Catalog #	Compound Name
S17047	Codeine- $[\text{}^{13}\text{C}_3, \text{}^{15}\text{N}]$
S16108	Codeine- $[\text{}^{13}\text{C}_4, \text{}^{15}\text{N}]$
S17050	Morphine- $[\text{}^{13}\text{C}_3, \text{}^{15}\text{N}]$
S16107	Morphine- $[\text{}^{13}\text{C}_4, \text{}^{15}\text{N}]$
S17048	Codeine Glucuronide- $[\text{}^{13}\text{C}_3, \text{}^{15}\text{N}]$
S16110	Codeine Glucuronide- $[\text{}^{13}\text{C}_{10}, \text{}^{15}\text{N}]$
S17051	Morphine Glucuronide- $[\text{}^{13}\text{C}_3, \text{}^{15}\text{N}]$
S16109	Morphine Glucuronide- $[\text{}^{13}\text{C}_{10}, \text{}^{15}\text{N}]$
S16012	Amphetamine- $[\text{}^{13}\text{C}_6]$
S16013	Methamphetamine- $[\text{}^{13}\text{C}_6]$
S16014	MDA- $[\text{}^{13}\text{C}_6]$
S16015	MDEA- $[\text{}^{13}\text{C}_6]$



There is NO Detectable M+0 in any of the IsoSciences Internal Standards.

Contact Us Today to learn more about our product offerings!





IsoSciences, as a leading supplier of high quality internal standards, has DEA approval for manufacturing all Schedule I-V Controlled Substances.

Drugs, substances, and certain chemicals that are used to make drugs are classified into five (5) distinct categories or schedules depending upon the drug's acceptable medical use or dependency potential. Internal standards are important for dependable analytical results. This is particularly true in LC/MS/MS analysis where lower detection limits and faster run times are always the goal. IsoSciences is ISO 9001:2015 certified providing the highest quality compounds in the industry.

Now Available:

Catalog #	Compound Name	Catalog #	Compound Name
S17147	Clobazam- $^{13}\text{C}_6$	S17158	Oxazepam- $^{13}\text{C}_6$
S17148	Clonazepam- $^{13}\text{C}_6$	S17159	Prazepam- $^{13}\text{C}_6$
S17149	Diazepam- $^{13}\text{C}_6$	S17160	Temazepam- $^{13}\text{C}_6$
S17153	Lorazepam- $^{13}\text{C}_6, ^{15}\text{N}$	S18040	Triazolam- $^{13}\text{C}_6$
S17154	Midazolam- $^{13}\text{C}_6$	S18044	Zolpidem- $^{13}\text{C}_2, ^{15}\text{N}$
S18009	Naltrexone- $^{13}\text{C}_3, ^{15}\text{N}$	S17156	Nordiazepam- $^{13}\text{C}_6$

Coming Soon...The Next Wave of Internal Standards:

Heroin- $^{13}\text{C}_3, ^{15}\text{N}$	Norcodeine- $^{13}\text{C}_3, ^{15}\text{N}$	D-Amphetamine- $^{13}\text{C}_6$
Oxymorphone- $^{13}\text{C}_3, ^{15}\text{N}$	Hydromorphone- $^{13}\text{C}_3, ^{15}\text{N}$	L-Amphetamine- $^{13}\text{C}_6$
Oxycodone- $^{13}\text{C}_3, ^{15}\text{N}$	6-Acetylmorphine- $^{13}\text{C}_3, ^{15}\text{N}$	D-Methamphetamine- $^{13}\text{C}_6$
Thebaine- $^{13}\text{C}_3, ^{15}\text{N}$	Lofetaniol- $^{13}\text{C}_6$	L-Amphetamine- $^{13}\text{C}_6$
Dihydromorphone- $^{13}\text{C}_3, ^{15}\text{N}$	Fentanyl- $^{13}\text{C}_6$	Methadone- $^{13}\text{C}_6$
Dihydrocodeine- $^{13}\text{C}_3, ^{15}\text{N}$	α -Methylfentanyl- $^{13}\text{C}_6$	U-47700- $^{13}\text{C}_6$
3-Acetylmorphine- $^{13}\text{C}_3, ^{15}\text{N}$	3-Methylfentanyl- $^{13}\text{C}_6$	Cannabidiol- $^{13}\text{C}_2$
Normorphine- $^{13}\text{C}_3, ^{15}\text{N}$	Butyrfentanyl- $^{13}\text{C}_6$	Tetrahydrocannabinol- $^{13}\text{C}_5$
	Carfentanyl- $^{13}\text{C}_6$	

Related Products:

Steroids:

- Androsterone- $^{13}\text{C}_3$
- Testosterone- $^{13}\text{C}_3$
- DHEA- $^{13}\text{C}_3$

Our Competitive Advantages:

1. INCREASED TESTING ACCURACY:

When shifting to ^{13}C and ^{15}N isotopes, customers are assured a superior internal standard that co-elutes with the analyte. The isotopes are placed in non-exchangeable positions and in desired molecular fragments to ensure the internal standard allows for accurate measurements.

2. CORRECTS FOR SAMPLE VARIATION:

Why co-elute? An internal standard is used to correct for injection to injection variation. The internal standard is unable to correct for ion suppression and matrix effects without co-elution.

3. COMPLETE CERTIFICATE OF ANALYSIS:

A complete Certificate of Analysis is issued with every compound. This includes structural identity by ^1H -NMR and ^{13}C -NMR, purity assessment by HPLC-UV, GC-FID or HPLC-ELSD and isotope incorporation by LC-MS or GC-MS

4. HIGH PURITY:

IsoSciences compounds routinely analyze over 98% pure and 98% isotope incorporation with no unlabeled material detected.