

## **INTERNAL STANDARD** FUMONISINS B1 & B2

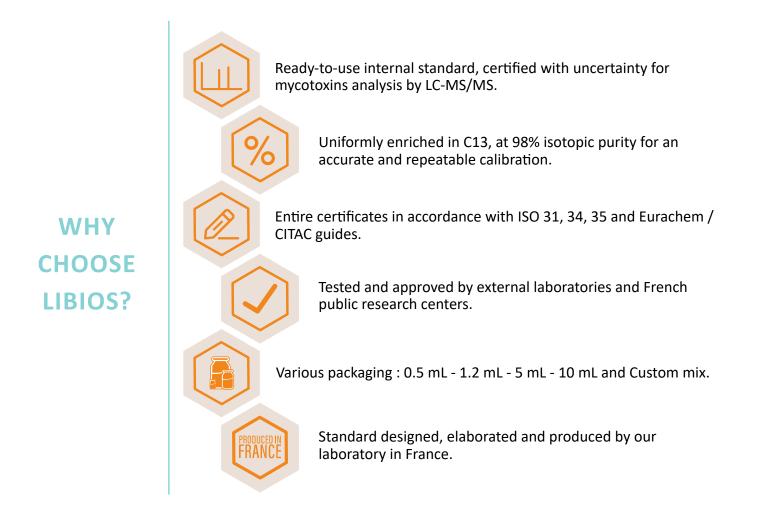
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Our LIB'UP<sup>®</sup> allows you to guarantee the quality of your analyses and accurately measure the toxins contained in your samples thanks to the high quality and purity of our standards.

If you use our internal standards, you avoid yield losses during your extractions, and you greatly reduce ion suppression due to the matrix effect.

LIBIOS **99** 





## **FUMONISINS B1 & B2 DETERMINATION**

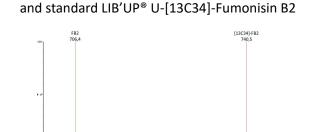
The method increasingly used for the Fumonisins B1 & B2 analysis is now the LC-MS/MS coupling. The analysis of this toxic exogenous compound requires the use of calibration reference solutions and / or the addition of internal standards as tracers of the molecule. The C13 labeled internal standard, Fumonisins B1 & B2, mimics as much as possible the physico-chemical behavior of the molecule to measure: identical structure and giving a specific and differentiated signal by the mass.

The mass spectrometry therefore allows the differentiation between the isotopologues and, by adding the known quantity of internal standard, the analyte content can be calculated. In other words, losses of the analyte during the purification various steps and / or extraction are completely compensated by similar losses of the isotopologue.

## Fumonisins B1 & B2 analysis example\*:

\*Test realised in our laboratory, use of our standard LIB'UP® U-[13C34]-Fumonisins B1 & B2.

MS spectrum of Fumonisin B1 and standard LIB'UP® U-[13C34]-Fumonisin B1



MS spectrum of Fumonisin B2

Product	Code/Packaging	Concentration	Solvent
[13C34]-Fumonisins B1 & B2	FB1213C34-5-0.5 (0.5 mL) FB1213C34-5-1.2 (1.2 mL) FB1213C34-5-5 (5 mL) FB1213C34-5-10 (10 mL)	5 μg/mL	Acetonitrile/Water (50/50)
[13C34]-Fumonisins B1 & B2	FB1213C34-10-0.5 (0.5 mL) FB1213C34-10-1.2 (1.2 mL) FB1213C34-10-5 (5 mL) FB1213C34-10-10 (10 mL)	10 μg/mL	Acetonitrile/Water (50/50)



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