
 Xell is now part of Sartorius	Waldweg 21 33758 Schloss Holte- Stukenbrock	<b>Analysis Report</b>
	Date: 13.01.2022 Edition: 02	AR-Youth&Earth-2022-01

<b>Project</b>	Youth & Earth - Polyamines
<b>Order</b>	23.12.2021
<b>Customer</b>	Youth & Earth
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<b>Sample reception</b>	05.01.2022
<b>Date of analyses</b>	11.01.2022 - 25.01.2022

## 1 Samples

Number	Sample	Sample amount	Sample storage
1	CEUTICS Buckmidine (TSB202135002)	1 Aliqout	RT

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## 2 Polyamine analysis by LC-MS/MS

Prior to the sample preparation, polyamine extraction as described by Minocha *et al.*, 1994, was performed. The amount depicted in Table 1 was used for extraction.

The depicted results were obtained by LC-MS/MS measurements on an Agilent 1290 UHPLC system coupled to an Agilent 6470 Triple Quadrupole system after derivatization of amino groups. System Suitability Tests (SSTs) were measured along with the samples to verify the calibration.

The amount depicted in Table 1 was used for hydrolysis. Concentrations were calculated to mg of polyamines per g of sample. Sample preparation was considered during calculations.

*Table 1: Amount of sample used for extraction.*

Sample number	Sample name	Sample amount (mg)
1	CEUTICS Buckmidine	1000


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Table 2: Polyamine concentrations as measured by LC-MS/MS.

Sample number	Sample name	Concentration (mg/g)		
		Putrescine	Spermidine	Spermine
1	CEUTICS Buckmidine	0.09	3.83	0.04