



**Species Mix HYE DIGEST A+B (SmixDAB\_1)**

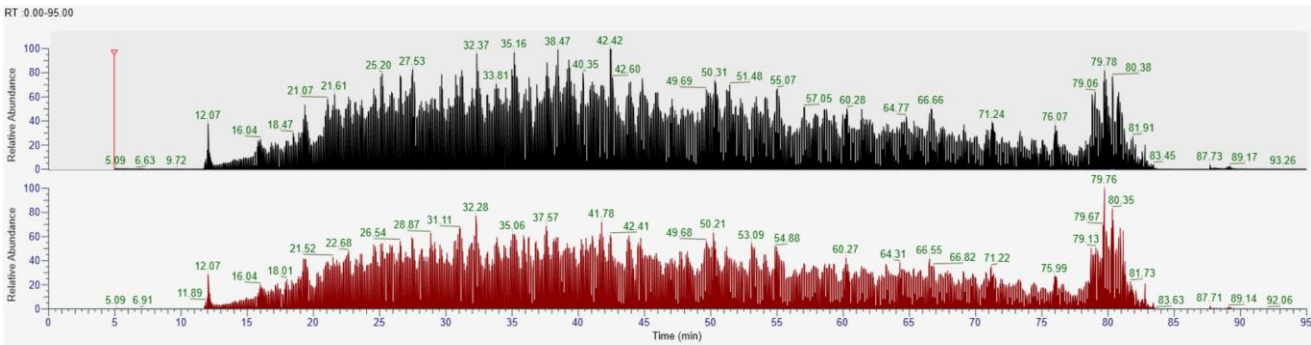
Product Name:	Species Mix HYE digested
Cat. No.:	SmixDAB_1
Lot:	PSmixDA_1_P2501A (MixA) / PSmixDB_1_P2501A (Mix B)
Production Date:	01/2025
Quality Control Date:	01/2025
Peptide Amount per Vial:	20 µg
Best before:	11/2026
Storage Temperature after	
Reconstitution:	≥ -20°C

**1. Quality Control Overview**

Assay Name/Specification (Minimum Release Criteria)	Result
<b>Peptide Amount Determination</b>	
Peptide concentrations were determined using the Pierce™ Quantitative Peptide Assay (Colorimetric) with peptide standards for calibration. The obtained results matched the established quality standards.	Pass
<b>MS Measurement</b>	
Total ion chromatogram of the Orbitrap Exploris™ 480 showed comprehensive coverage, meeting established quality standards.	Pass
Ratio between Mix A and Mix B within expected ranges (≤ 10 %). The analysis confirmed that the relative proportions of both mixes were consistent across multiple measurements, ensuring reproducibility.	Pass

**2. Total Ion Chromatogram**

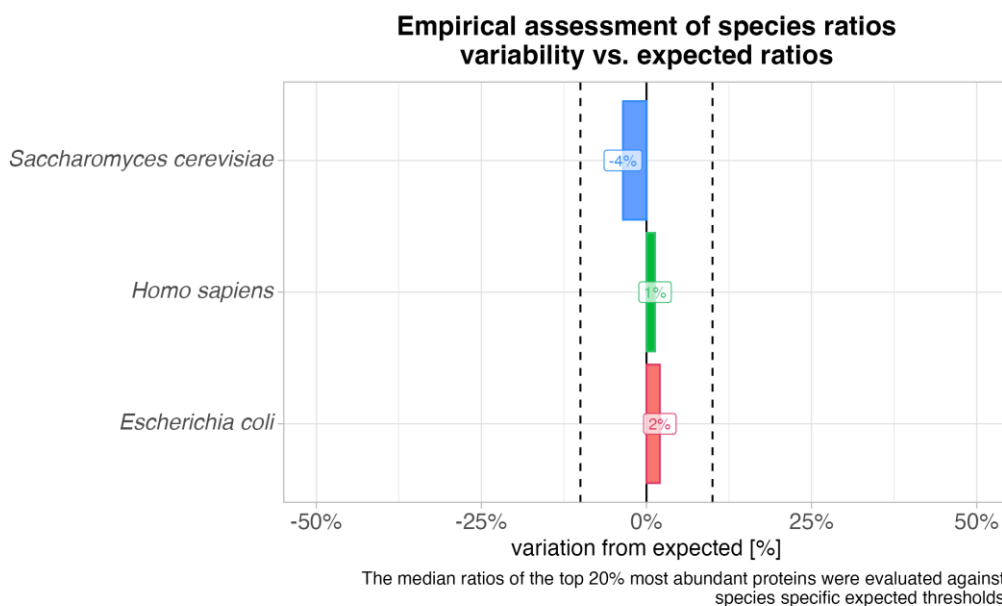
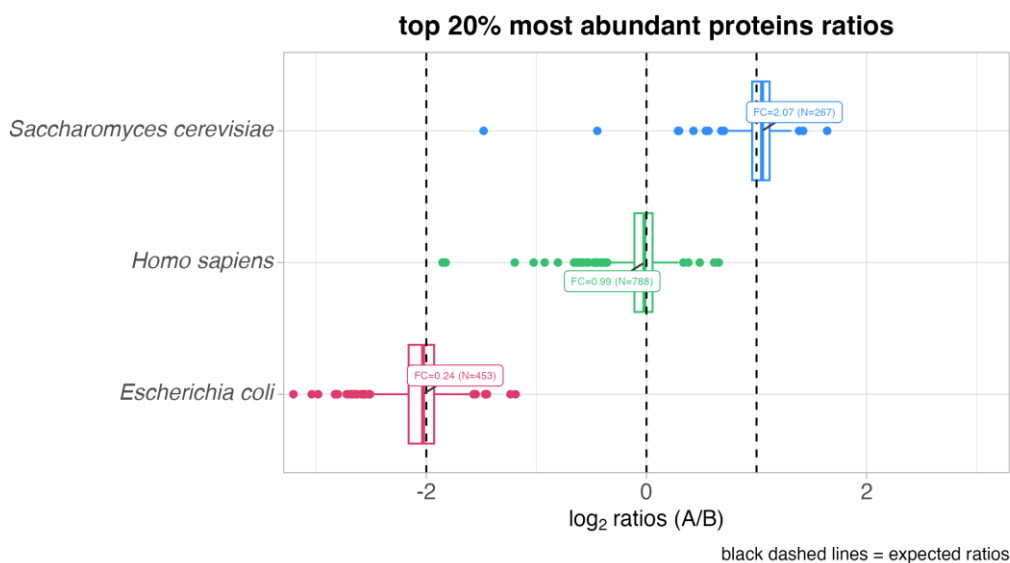
Mix A and Mix B were measured using an Orbitrap Exploris™ 480 mass spectrometer with a 60-minute gradient.





### 3. Data Analysis

The mass spectrometry data was evaluated using Spectronaut® and SpectroPipeR<sup>1</sup> for quality assessment and visualization.



1. **SpectroPipeR-a streamlining post Spectronaut® DIA-MS data analysis R package;**

Stephan Michalik, Elke Hammer, Leif Steil, Manuela Gesell Salazar, Christian Hentschker, Kristin Surmann, Larissa M Busch, Thomas Sura, Uwe Völker; Bioinformatics; 2025 Mar 4; doi: 10.1093/bioinformatics/btaf086; PMID: 39985446

Date: 25.01.2025

Authorized and inspected  
 Dr. Marco Harms