**CHEAR Plasma Reference Material**

Metabolomic Analysis: Biocrates Absolute***IDQ***® p180 Kit - RTI CHEAR Analytical Hub - Untargeted Analysis Resource Core

PI, CHEAR: Timothy Fennell, PhD., RTI International

**Abstract**

CHEAR reference plasma was provided by Emory University. The material was prepared and analyzed using the Biocrates Absolute***IDQ***® p180 Kit. Six samples were injected of the sample reference material prepared in replicate.

**Goals**

The results from this study will demonstrate the possible compounds that can be identified in plasma via Biocrates Absolute***IDQ***® p180 Kit.

The Biocrates Absolute*IDQ®* p180 kit (Biocrates Life Sciences AG, Innsbruck, Austria) can quantitatively measure ~188 biologically relevant metabolites from five analyte groups (acylcarnitines, amino acids, biogenic amines, glycerophospho- and sphingolipids, and hexoses) on a triple quadrupole mass spectrometer.

The data required for the metabolomics analysis can be found in the accompanying files:

Procedures: 1. CHEAR Plasma Reference Material Biocrates-Procedures.docx

Study Design Table: 2. CHEAR Plasma Reference Material Biocrates-Study Design Table.xlsx

Metadata: 3. CHEAR Plasma Reference Material Biocrates-Metadata.xlsx

Processed Data: 4. CHEAR Plasma Reference Material Biocrates-Results.xlsx

Archived Raw Data: 5. CHEAR Plasma Reference Material Biocrates-Zipped Data.zip

**Notes:**

Full sample preparation and instrumentation parameters are detailed in accompanying file **1. CHEAR** **Plasma** **Reference Material** **Biocrates-Procedures.docx.**

Factors listed in the study design are defined in the Variable Dictionary located in the accompanying file entitled **2. CHEAR** **Plasma** **Reference Material** **Biocrates-Study Design Table.xlsx.** Available in the same file is information linking the Data File names to the Sample IDs.

Processed data can be found in the accompanying file entitled **4. CHEAR** **Plasma Reference Material** **Biocrates-Results.xlsx.**

Data files for each sample are generated by Analyst Software. These files arelocated in the accompanying file entitled **5. CHEAR** **Plasma** **Reference Material** **Biocrates-Raw Files.zip.**