

# S160400 Adhesion Assay- Submitted Data

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## 1. Purpose

The purpose of this file is to describe the submitted raw data files of the Philip Morris International Reduced Risks Products System Toxicology study S160400 Adhesion Assay.

## 2. File Types

The file extensions used are the following:

- \*.txt and \*.csv: can be opened with a text editor.
- \*.xlsx, \*.xls: can be opened with Microsoft Excel.
- \*.pdf: can be opened with Adobe Acrobat Reader.

## 3. Folder organization

The folder organization is presented below.

### ❖ **AGGREGATED**

- S160400-ADHESA.xlsx: contains raw data (individual values: count of adherent MM6 cells and count of HCAECs per well) for the adhesion assay of independent experiments.
- S160400-TNFABS-MM6-CM.xlsx: contains individual concentrations of TNF-Alpha in picogram per milliliter measured in conditioned medium of MM6 cells for independent experiments.
- S160400-MAP-MM6-CM-MyriadE56: contains report from Myriad-RBM (<https://myriadrbm.com/>) with regards to the multi-analyte profiling (MAP) in conditioned medium of MM6 cells generated in the main phase 1 (IandD) corresponding to the experiment 56. The concentration of analytes was determined per experimental condition.
- S160400-MAP-MM6-CM-MetaE56: contains information to link the sample codes in Myriad-RBM report with experimental conditions (Blind analysis done by Myriad-RBM).
- S160400-Nicotine.xlsx: Contains individual nicotine concentrations measured in 3R4F or THS2.2 (also called P1) aqueous extracts for independent generation of aqueous extracts.

- S160400-Carbonyls.xlsx: Contains individual carbonyl concentrations measured in 3R4F or THS2.2 (also called P1) aqueous extracts for independent generation of aqueous extracts

## ❖ DOCUMENTS

- SP160400\_AdhesionAssay.pdf: Study plan document
- SP160400\_AdhesionAssay\_Amendment.pdf: Study plan amendment
- S160400-StudyReport-THS2.2.pdf: Study report for "Systems toxicology assessment of THS 2.2 (BATCH N° B-08164) vs 3R4F sbPBS using an adhesion assay established with monocytic Mono Mac 6 cells and primary human coronary artery endothelial cells"
- S160400-StudyReport-AdheAssay.pdf: Study report (provided as ANNEX of S160400-StudyReport-THS2.2.pdf) for "Establishment and optimization of an adhesion assay with primary human coronary artery endothelial cells (HCAEC)"

## ❖ MRNAMA

- HCAEC
  - S160400\_HCAEC\_MRNA\_Metadata.xlsx: metadatasheet for human coronary artery endothelial cells (HCAEC). Referring to the sample meta-data, including the study design and the meta-data collected during the laboratory process (from sample to Affymetrix CEL file). The column "Array.Name" describe the original CEL file name and is matching the headers of the PROCESSED file described above; while the column "Array.Name.TXT" is matching the text export of the original CEL file (File extension .txt)
  - S160400\_HCAEC\_MRNA\_PROCESSED.csv: GC-RMA normalized gene expression values (per probeset, each row). Each column is a sample. The numbers are log2-expression values.
  - S160400\_HCAEC\_MRNA\_S-XXXXXXXXXX.txt: CEL files converted to TXT format
- MM6
  - S160400\_MM6\_MRNA\_Metadata.xlsx: metadatasheet for human monocytic cells, Mono Mac-6 cells (MM6). Referring to the sample meta-data, including the study design and the meta-data collected during the laboratory process (from sample to Affymetrix CEL file). The column "Array.Name" describe the original CEL file name and is matching the headers of the PROCESSED file described above; while the

column "Array.Name.TXT" is matching the text export of the original CEL file (File extension .txt)

- S160400\_MM6\_MRNA\_PROCESSED.csv: GC-RMA normalized gene expression values (per probeset, each row). Each column is a sample. The numbers are log2-expression values.
- S160400\_MM6\_MRNA\_S-XXXXXXXXX.txt: CEL files converted to TXT format (.txt)

## 4. File Naming Convention

❖ **AGGREGATED:** [Study number]-[Endpoint type]-[Tissue/Cell/Biofluid type]-[Description if needed]

- Endpoint type:

- ADHESA: adhesion assay
- TNFABS: TNF-Alpha absorbance by ELISA
- MAP: multi-analyte profile measured by Myriad-RBM (<https://myriadrbm.com/>)

- Tissue/Cell/Biofluid type:

- HCAEC: human coronary artery endothelial cells
- MM6: human Mono Mac-6 cells
- MM6 CM: conditioned media (=supernatant) of MM6 cells (=biofluid)

❖ **MRNAMA:** [Study number]\_[Tissue type]\_[Endpoint name]\_[Description]

- Endpoint type:

- MRNA, stands for "Messenger RNA", refers to a biological endpoint measurement

## 5. Abbreviations

ADHESA:	adhesion assay
CM:	conditioned media
MAP:	multi analytes profiling
MIRNAMA:	microRNA microarray
MRNAMA:	messenger RNA microarray
THS2.2:	Tobacco Heating System (version 2.2), also referred to as ZRH or P1