

## Data Dictionary

Field Name	Field Contents
Sample Type / Flavoring chemicals	Chemicals that have been used in e-cigarette vaping liquids to add flavor
4, 24	4 hour timepoint, 24 hour timepoint
FU	Fluorescent units
S#)(letter)	Set (number), (individual replicate)
Set	Three replicates. Replicates are from same cell population.
M#	Single independent cytokine measurement# (pg/mL)
Measurement	Discrete and separate cell population measured.
Fluorescence units	A unit of measurement used in analysis which employs fluorescence detection. Measurement of the quantity or size of the level of fluorescence intensity.
PBS	Phosphate buffered saline, (-) control
1% PG/VG	Vehicle solution of propylene glycol (PG) and vegetable glycerin (VG). A 1% solution of a 50% PG/50% VG in PBS.
LPS	Lipopolysaccharides, (+) control
Cr VI	Chromium (VI), (+) control
BEAS-2B cells	Human bronchial epithelial immortalized cell line
THP-1 (naïve)	Human monocytic cell line (M0)
THP-1 (activated)	Lipopolysaccharide activated monocytes (M1)
AlamarBlue	Viability measurement by reacting with FMNH <sub>2</sub> , FADH <sub>2</sub> , NADH, NADPH, and cytochromes to measure the entire reducing potential of the cell.
LDH	Lactate dehydrogenase is released from damaged cells into the culture medium. The assay utilizes a coupled enzymatic reaction which converts resazurin into resorufin and gives off fluorescence.
DCFH	Intracellular reactive oxygen species. Measured using the cell permeable dye, 2',7'-dichlorofluorescein diacetate (DCFH-DA). DCFH-DA is de-esterified intracellularly and turns to highly fluorescent 2',7'-dichlorofluorescein (DCF) upon oxidation.
Cytokines	IL-1b, IL-6, IL-8, TNF – $\alpha$ All cytokine measurements are (pg/mL)
IL-1b	Interleukin one beta, also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a cytokine protein that in humans is encoded by the IL1B gene
IL-6	Interleukin six, is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine.
IL-8	Interleukin eight, is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells.
TNF – $\alpha$	Tumor necrosis factor alpha, is a cytokine, i.e. a small protein used by the immune system for cell signaling.