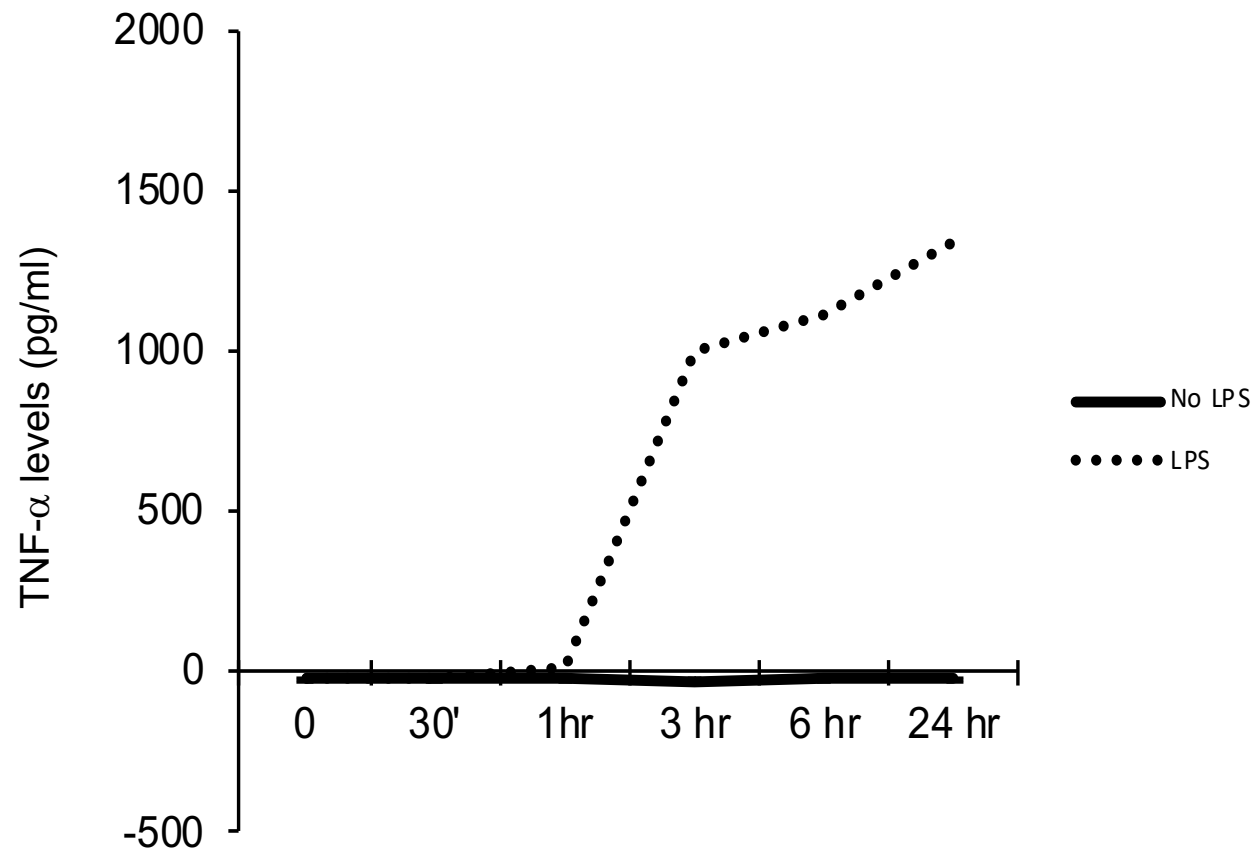
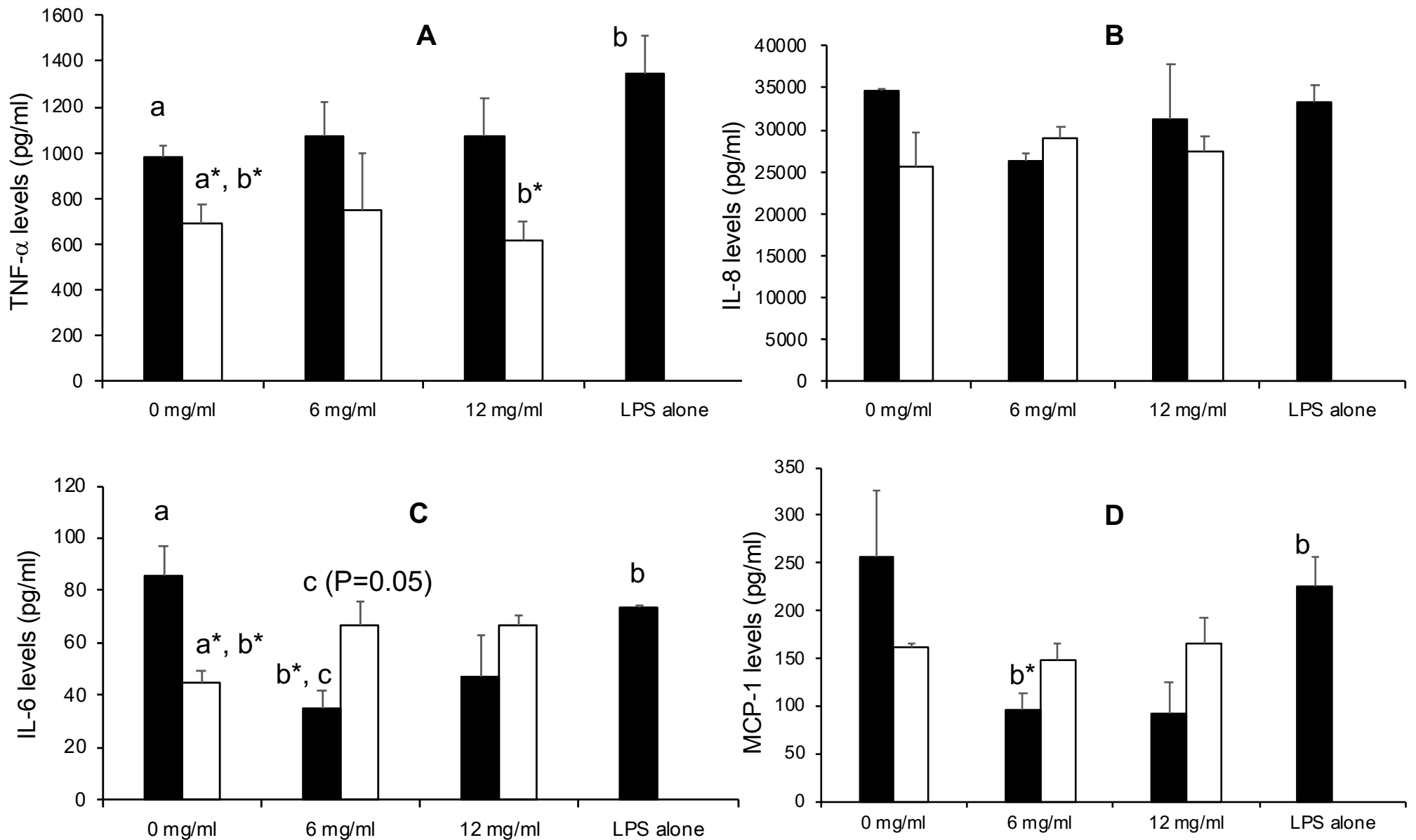


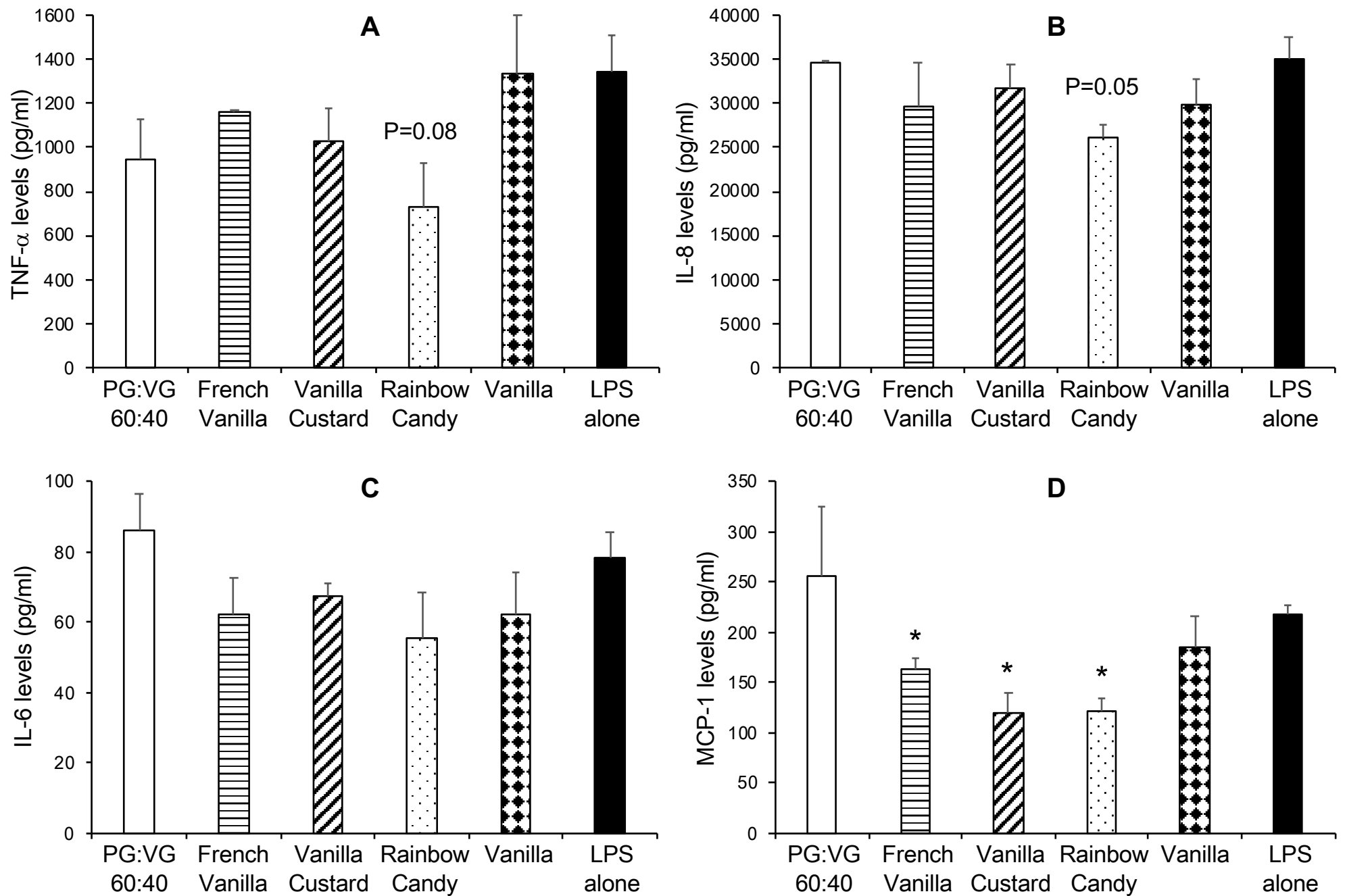
**Supplementary Figure 1.** Cytotoxicity of CSE measured by MTT assay. Various concentrations of CSE from 3R4F and Spectrum were incubated with BEAS-2B cells for 24 h and showed a reduced growth in a dose-dependent manner. 3R4F was found to be more cytotoxic than Spectrum at 30% CSE. <sup>a</sup> P<0.05, <sup>b</sup> P<0.01, <sup>c</sup> P<0.001 compared to control, \* P<0.01 comparing 3R4F with Spectrum CSE.



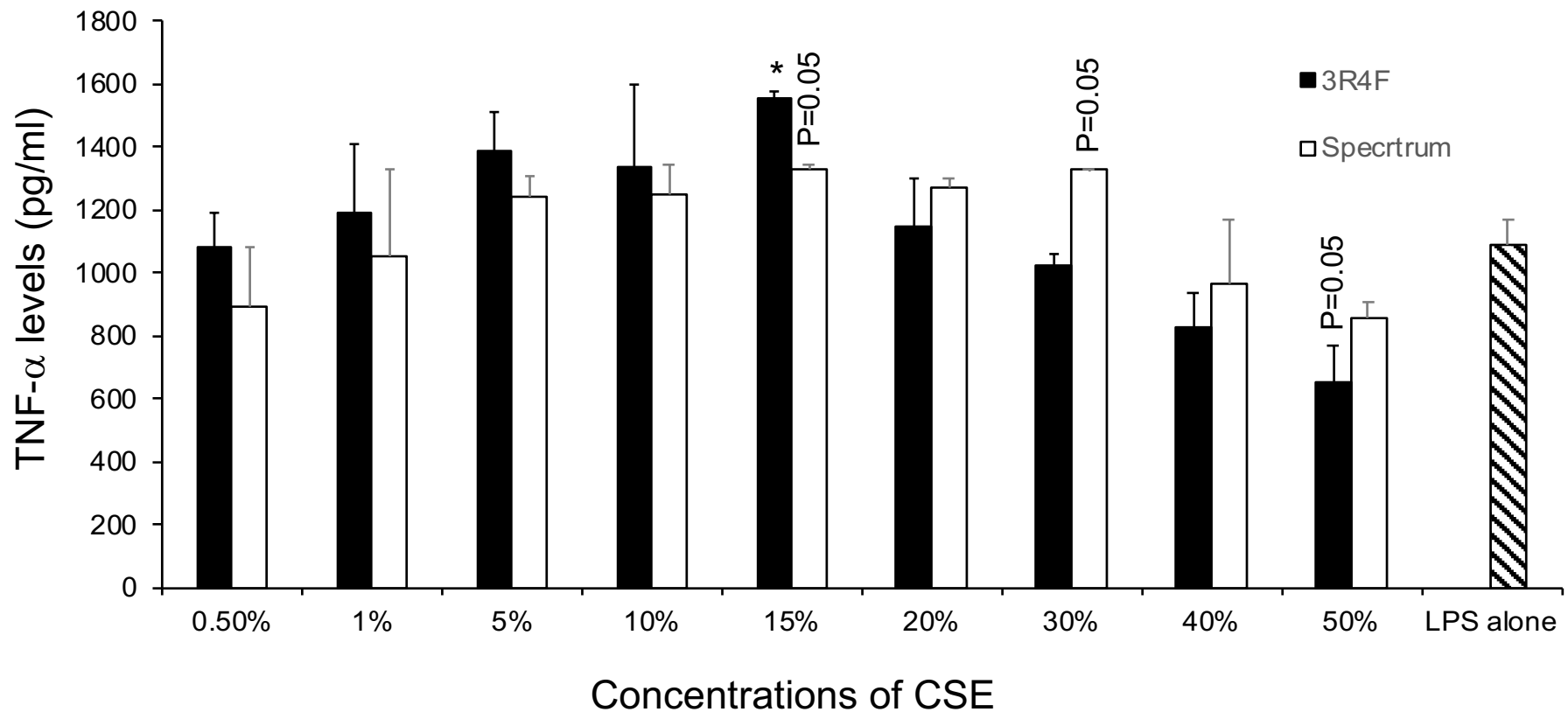
**Supplementary Figure 2.** Standardizing time for measuring TNF- $\alpha$  in THP-1 Macrophages in response to LPS (100 ng/ml).



**Supplementary Figure 3.** Inflammatory response biomarkers in THP-1 derived macrophages following incubation with 1% aerosolized nicotine containing e-liquids. TNF- $\alpha$ , IL-8, IL-6 and MCP-1 levels in no flavor or Smoothol flavored nicotine containing e-Liquids differed. Mainly, IL-6 and MCP-1 levels were higher in Smoothol exposed macrophages while TNF- $\alpha$  were reduced by Smoothol in presence of nicotine. Black rectangle: Unflavored, white rectangle: Smoothol Flavor. Comparisons are indicated as vs a (PG:VG), b (LPS alone) or c (6 mg/ml nicotine with and without Smoothol), \* P<0.05.



**Supplementary Figure 4.** Inflammatory marker response following treatments with 1% aerosolized flavored e-liquids in THP-1 derived macrophages. Rainbow Candy showed a non-significant drop in TNF- $\alpha$  and IL-8 levels but a significant decrease in MCP-1 when compared to LPS alone. French Vanilla and Vanilla Custard showed significant reduction in MCP-1 levels when compared to LPS alone, \* P<0.05 compared to LPS alone.



**Supplementary Figure 5.** Inflammatory response of CSE. 3R4F and Spectrum smoke extracts were inflammatory as observed by rising trend of TNF- $\alpha$  up to 15% and 30% CSE respectively and thereafter the effect seemed anti-inflammatory at increasing concentrations of 3R4F and Spectrum CSE in the presence of LPS. The statistical comparisons were done against LPS alone treatments, \* P<0.05.