Supplementary figures

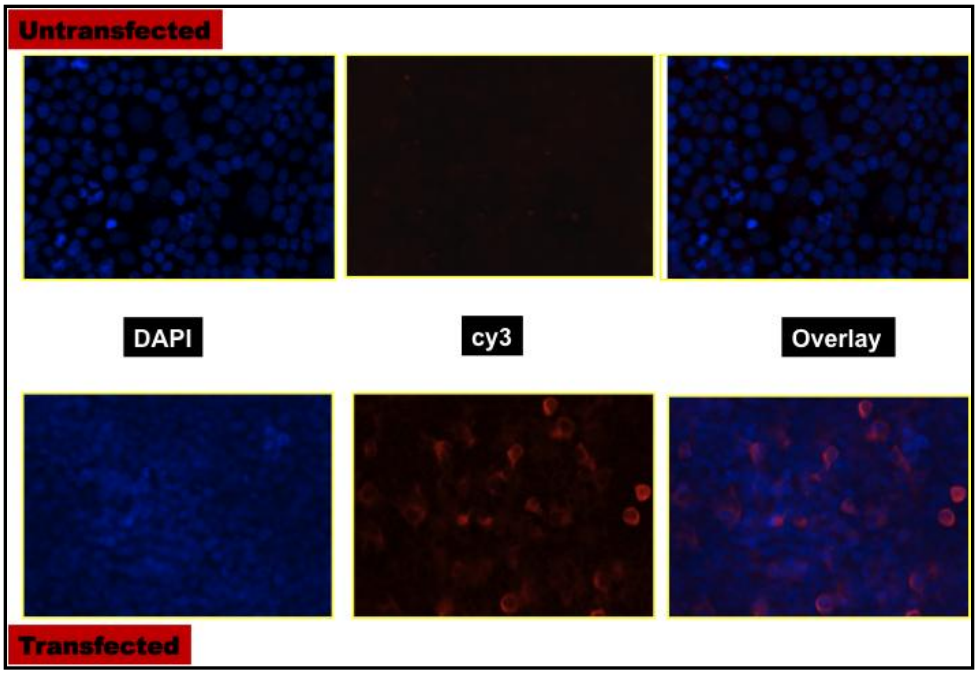

Figure S1: pCMV6vector harbouring human12R-LOX gene was trasfected into HEK cell lines and immunofluorescence was done using 12R-LOX as primary antibody and cy3 conjugated secondary antibody. Left panel: DAPI stained cells, Middle panel: cy3 stained cells, Right panel: overlay with both DAPI and cy3.

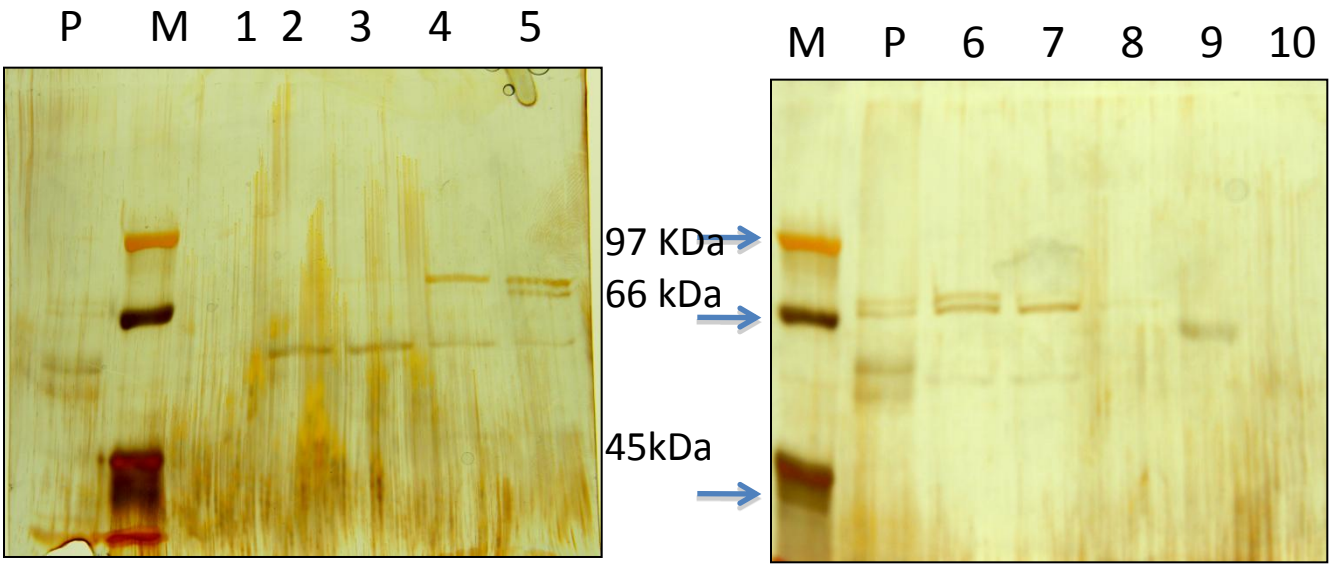

Figure S2: SDS-PAGE analysis of Superose-12 purified (Gel filtration) protein fractions of the human 12R-LOX enzymes and gels were stained with silver nitrate. M-Low molecular weight marker (Amersham biosciences), P-Ni-NTA purified protein fraction, 1-10-Eluted fractions

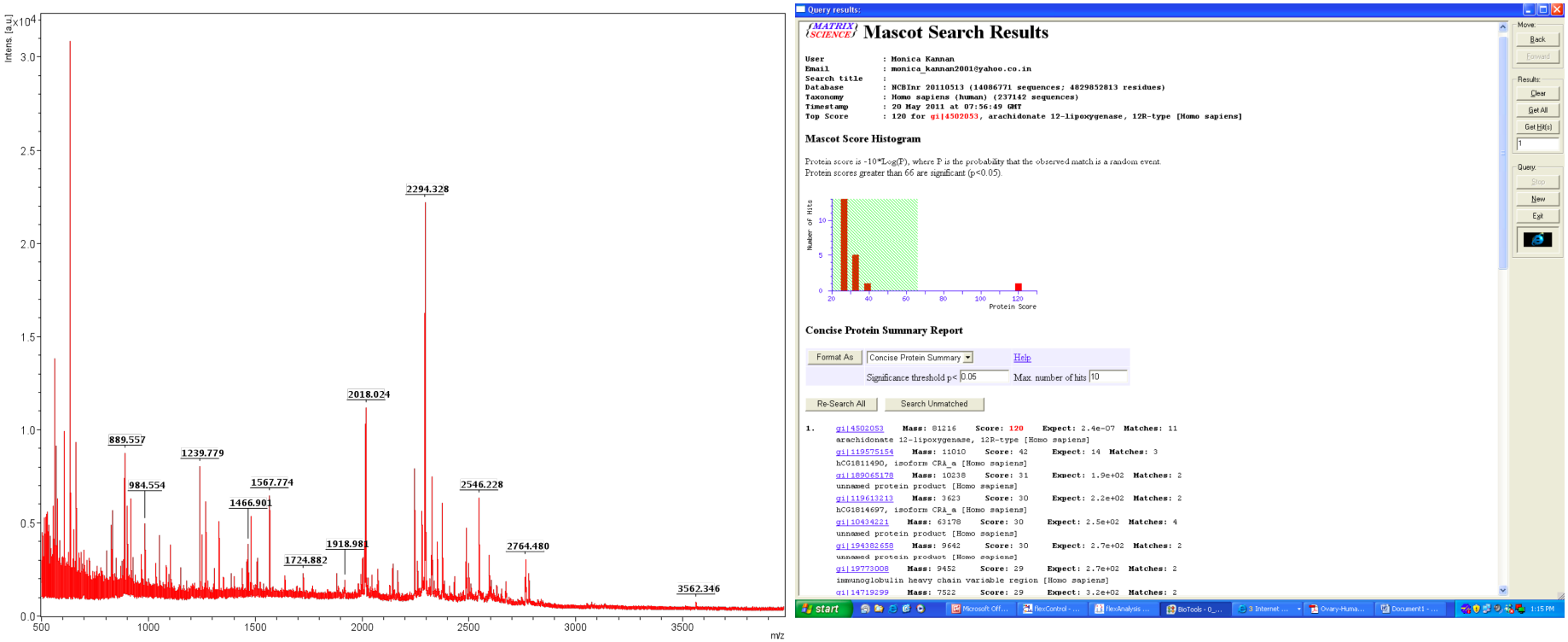

Figure S3: MALDI report for the human 12R-Lipoxygenase protein expressed and purified from Rosetta Strain.

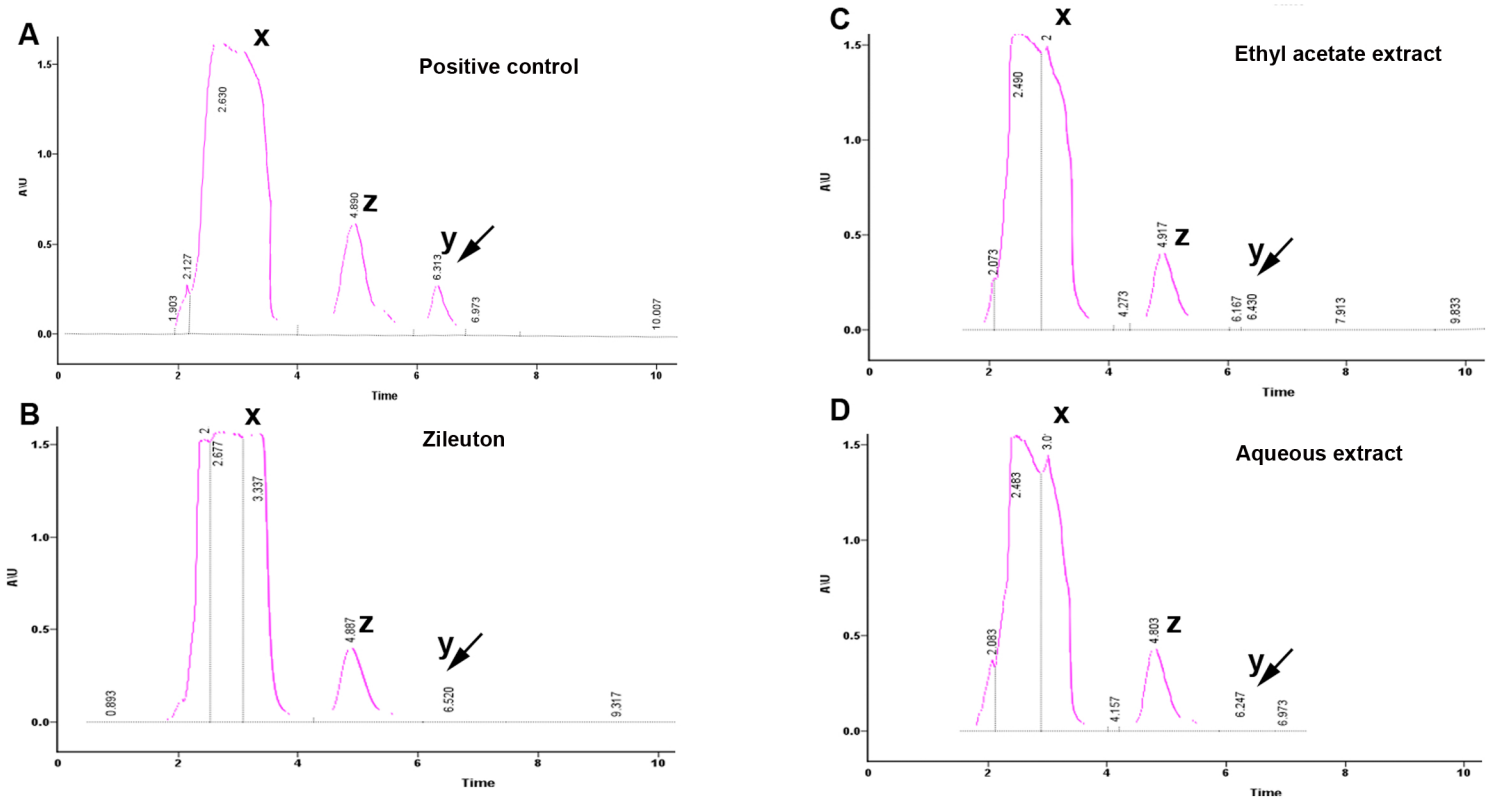

Figure S4- HPLC analysis of the reaction products formed by purified human 12R-LOX in the presence of extracts of Acalypha indica leaves. Purified human 12R-LOX activity assay was assessed by incubating it with substrate arachidonic acid. In different experiments, the enzyme was pretreated with control DMSO **(A)**, Zileuton **(B)**, Ethyl acetate extracts of plant Acalypha indica **(C)**, Aqueous extracts of plant Acalypha indica **(D)**.