Electronic Supplementary Material (ESI) for Molecular BioSystems.

Supporting Information

Methylglyoxal impairs insulin signaling, downregulates the enzymes involved in cholesterol biosynthesis and decreases glucose uptake

Arati B Deshmukh[1], Shakuntala Bai[1], Aarthy T[1], Rubina S Kazi[1], Reema Banarjee[1], Rajeshwari Rathore[1], Vijayakumar MV[2], Thulasiram HV[1], Manoj Kumar Bhat[2], Kulkarni MJ[1*]

[1] - CSIR-National Chemical Laboratory, Pune-411008, India

[2]- National Centre for Cell Science, Pune-411007, India

[*]Corresponding Author:

Mahesh J Kulkarni, PhD

Scientist, Proteomics Facility

Division of Biochemical Sciences

CSIR-National Chemical Laboratory

Pune-411008, India

Phone: +912025902541

E-mail: mj.kulkarni@ncl.res.in

Table of Content

Figure S-1 Depicting the PCA plot of all replicate acquisitions of different treatment are clustered together suggesting the reproducibility of replicate acquisition.

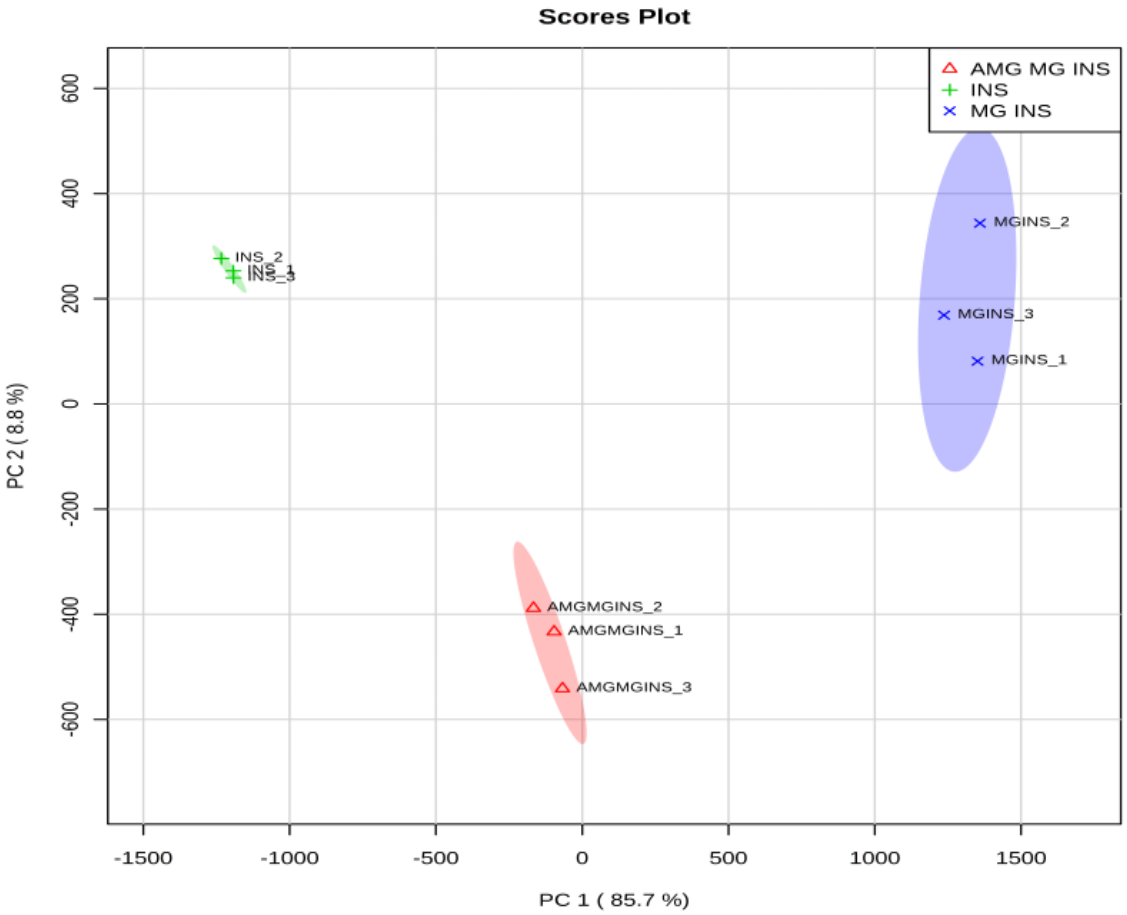
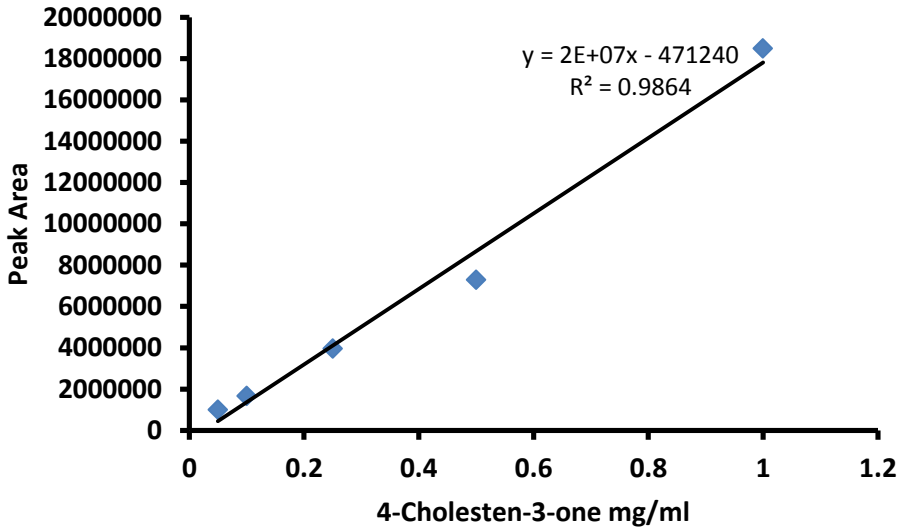


Figure S-2 A Standard Curve for Cholesterol Quantification

1. Cholest-4-en-one



2. Cholesterol

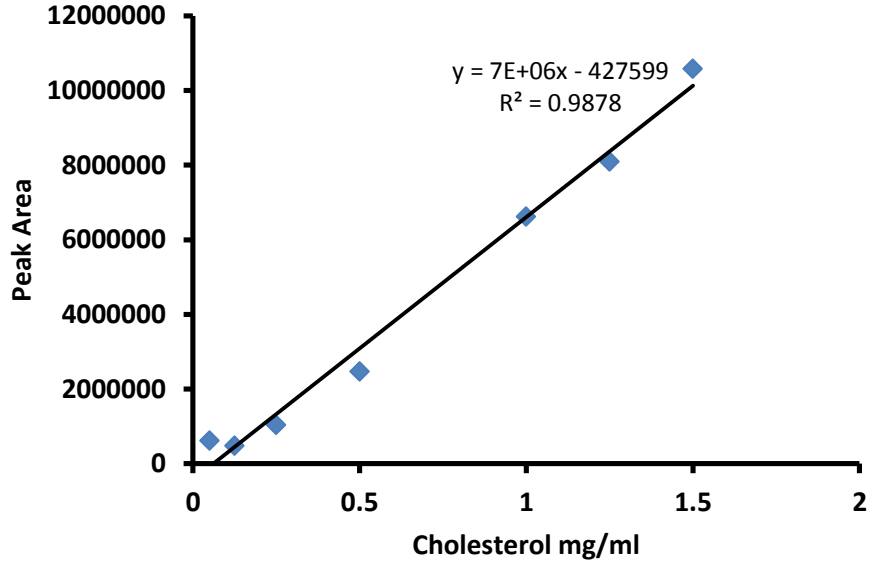


Figure S-2 B Representative Chromatogram depicting the peak areas for cholesterol, desmosterol and Cholest-4-en-one

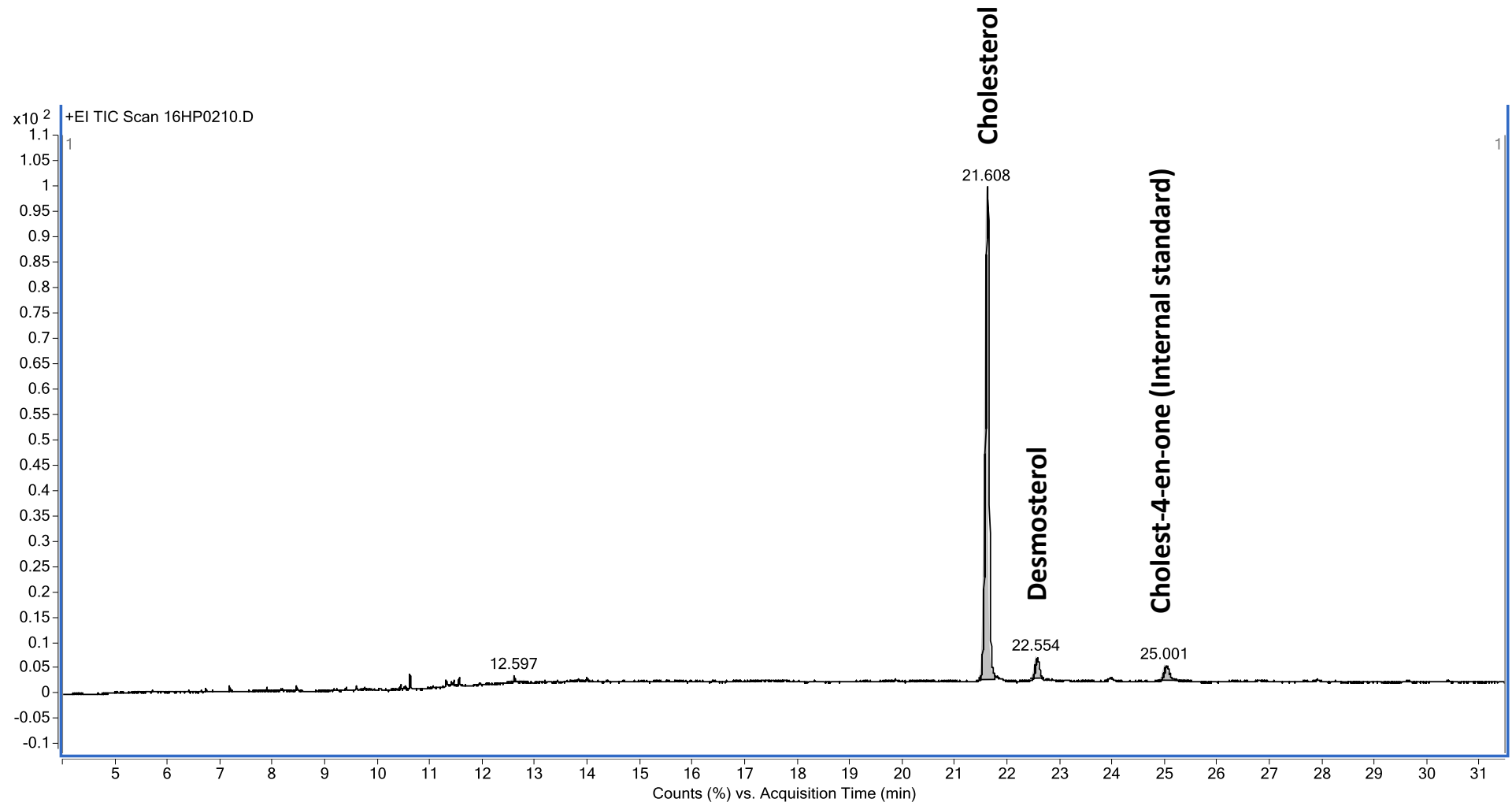


Figure S-2 C Spectral Matching with NIST Library for Cholesterol, Desmosterol and Cholest-4-en-one resp.