

## **SUPPLEMENTARY MATERIAL**

### **Research Article**

*Syzygium cumini* leaf extract reverts hypertriglyceridemia via downregulation of the hepatic XBP-1s/PDI/MTP axis in monosodium L-glutamate-induced obese rats

### **Authorship**

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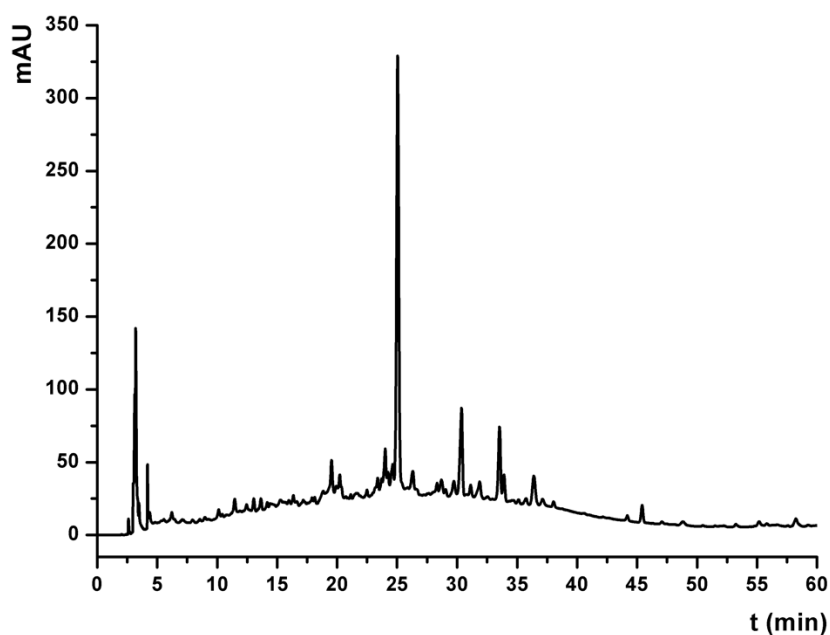
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### ***Validation of HESc polyphenolic profile by HPLC.***

To validate the identity of HESc polyphenolic profile, in accordance to our previous report (Sanches et al., 2016), a chromatograph (LC-20A Prominence, Shimadzu) equipped with autoinjector and detector SPD-20A/UV-Vis was used for polyphenols separation. HESc was dissolved in methanol (500 µg/mL) and filtered through 0.45 mm mesh (Millipore) for an injection volume of 20 µL into an analytical column Luna C-18 (250 x 4.6 mm - 5 µm, Phenomenex). The mobile phase consisted of 0.1% formic acid acidified water (A) and acetonitrile (B) according to the following elution gradient: 0-1 min, 5% B; 1-30 min, 5%-30% B; 30-60 min, 30%-70% B; and flow rate of 1 mL/min at 40 °C oven to allow the fingerprint detection at 254 nm. All solvents were purchased from Merck Millipore Co. (Germany) and degassed using ultrasonic bath before the runs to be performed in triplicate. Supplementary Figure 1 shows a representative fingerprint of HESc HPLC analysis, which corresponded to the same polyphenolic profile previously reported by us (Sanches et al., 2016).



Supplementary Figure 1: HPLC fingerprint of the hydroethanolic extract of *S. cumini* leaf (HESc). Representative HPLC chromatogram with UV detection at 254 nm of HESc, which was performed in triplicate for validation of its authenticity in accordance with analysis previously reported (Sanches et al., 2016).

## Reference

Sanches, J.R., Franca, L.M., Chagas, V.T., Gaspar, R.S., Dos Santos, K.A., Goncalves, L.M., Sloboda, D.M., Holloway, A.C., Dutra, R.P., Carneiro, E.M., Cappelli, A.P., Paes, A.M., 2016. Polyphenol-Rich Extract of *Syzygium cumini* Leaf Dually Improves Peripheral Insulin Sensitivity and Pancreatic Islet Function in Monosodium L-Glutamate-Induced Obese Rats. *Frontiers in pharmacology* 7, 48.