

medium will be collected after 15, 30 and 60 min of incubation and the insulin level was analyzed by Elecsys 2010 analyzer.

#### **2.4. Statistical Analysis**

One-way analysis of variance (ANOVA) followed by the Tukey's post-test was used to analyze the differences between groups and differences between time intervals amongst groups using SPSS 17 statistical package, USA. A probability value  $<0.05$  was considered the minimum level of statistical significance. The average particle sizes (in nM) are expressed as means  $\pm$  SD (standard deviation) while insulin levels are expressed as means  $\pm$  SEM (standard error of means). Also blood glucose levels are presented as a percentage of control and expressed as means  $\pm$  SEM (standard error of means).