



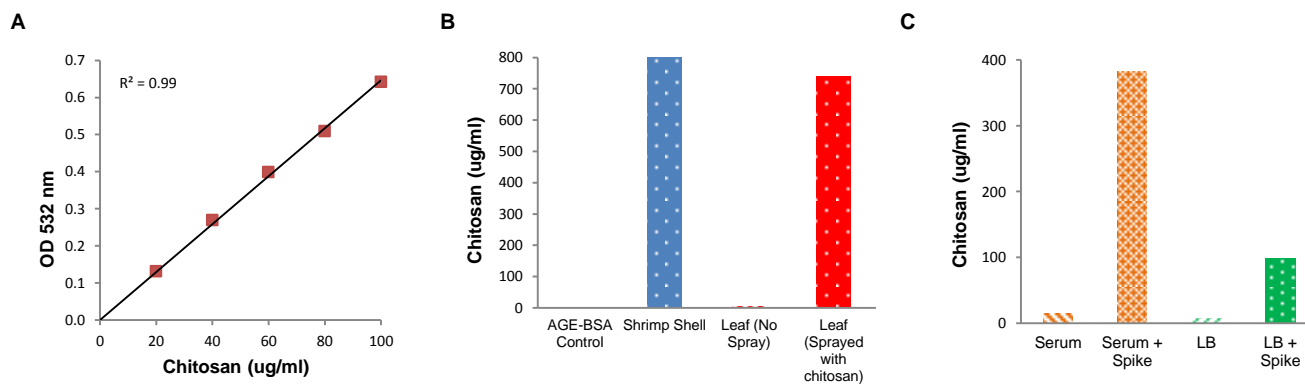
3. Color Development: Add 5 µl of Chitosan Converter Solution to each Sample(s). Heat the tubes at 85-90°C for 30 min. After 30 min, add 200 µl of the Chitosan Detector Solution to each tube and heat the tubes at 85-90°C for another 20 min. After 20 min, transfer 250 µl of the Sample to the desired well(s) in a 96-well clear flat-bottom plate.

4. Measurement: Measure the O.D. at 532 nm at 25°C immediately.

5. Calculation: Subtract 0 Standard reading from all Sample(s) and Standard readings. Plot the Chitosan Standard Curve. Apply the Sample readings to the Chitosan Standard Curve to get A µg/ml of Chitosan in Sample(s).

$$\text{Chitosan concentration (}\mu\text{g/ml) in Sample(s) = A x D}$$

Where: A = Chitosan concentration from Standard Curve (µg/ml)
D = Sample Dilution factor [D=1 for undiluted Sample(s)]



Figures. A. Chitosan Standard Curve. **B.** Chitosan detection in shrimp shell and leaf sprayed with Chitosan. **C.** Spiking experiment. Serum and LB medium are spiked with 400 and 100 µg/ml of Chitosan respectively. Data shows >90% recovery in the assay kit condition.

VIII. Related Products:

- Chitotriosidase Activity Assay Kit (Fluorometric) (K512)
- Acidic Mammalian Chitinase Activity Kit (Fluorometric) (K513)
- Acidic Mammalian Chitinase Inhibitor Screening Kit (Fluorometric) (K693)
- EZClick™ O-GlcNAc Modified Glycoprotein Assay Kit (FACS/Microscopy, Green Fluorescence) (K714)
- Human CellExp™ CHI3L3, Mouse Recombinant (P1312)
- Hyaluronic Acid (HA) ELISA Kit (E4626)

FOR RESEARCH USE ONLY! Not to be used on humans.