

## TOP GLOVE SDN. BHD

### WORK INSTRUCTION

#### Finished Product Testing: Protein Test Method Sample Concentration and Color Development (ASTM D 5712)

##### Purposes/Function/Objective

- To determine protein content in glove

##### Apparatus/Equipment

-micro pipette  
-centrifuge  
-mc tubes rack

##### Reagents

-DOC solution  
-TCA solution  
-PTA solution  
-NaOH solution  
-Reagent C  
-Reagent C'

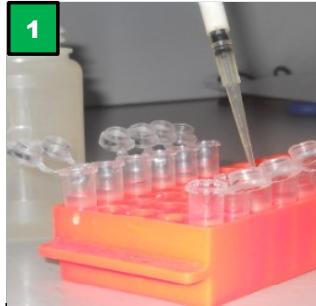
##### Form/s

-LA/F22

##### Reference

-ASTM D 5712

(Effective Date : 02/05/2011)



**1**

Transfer to separate 1500 uL microtubes:  
-reagent blank  
-standard protein solution  
-specimen extracts



**2**

Add 100 uL DOC.  
Vortex solution.  
Allow stand for 10 minutes



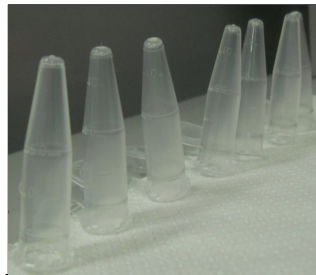
**3**

Add 0.2 mL 50:50 TCA and PTA solution.  
Vortex solution.  
Allow stand for 30 minutes.

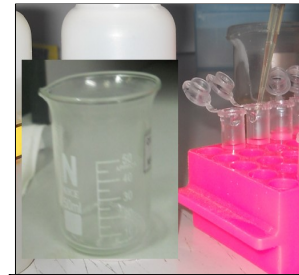


**4**

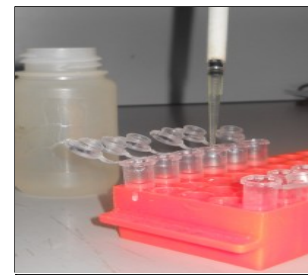
Centrifuge solution for 15 minutes at 8300 rpm



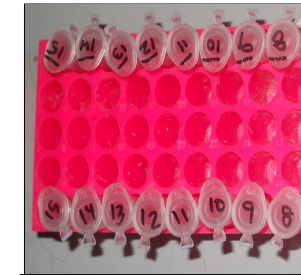
Decant off supernatant liquid. Drain by inverting each tube on an absorbent tissue.



Add 250 uL of 0.2 M NaOH solution to each tube. Vortex and ensure solution is clear. If precipitates remain, add more NaOH solution up to 1 mL.



Add 520 u Reagent C. Vortex solution. Allow stand for 15 minutes. Add 62 uL Reagent D. Vortex solution. Allow stand for 30 minutes.



Repeat Step 1 and 2 by replacing Reagent C to Reagent C' to another set of sample, blank and standard solution.

Pipette solution into micro plate. Carry out determination using micro plate reader. Refer to WI-Analyze using micro plate reader.

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