

**TOP GLOVE SDN. BHD**

**QA Department**

**Finished Product Testing :Protein Test Method**

**1-Reagent Preparation (ASTM D 5712)**

**Purposes/Function/Objective**

To determine the protein content in latex gloves

**Apparatus/Equipment**

-analytical balance  
-volumetric flask

**Chemicals**

-PBS tablet  
-Sodium Carbonate  
-NaOH pellet  
-Sodium Tartarate  
-Copper Sulfate Solution  
-Folin Reagent  
-DOC  
-TCA  
-PTA

**Reference**

-ASTM D 5712

**Form/s**

-LA/F22

No	Reagent	Finalize method		
1	extraction buffer (PBS)	10 tablet until 1000 mL		
2	reagent A alkaline tartarate solution	2.22 g sodium carbonate 0.44g NaOH 0.18g sodium tartarate final volume 100 ml	or	1.11 g sodium carbonate 0.22g NaOH 0.09g sodium tartarate final volume: 50 ml
3	reagent B	7g Copper Sulfate Solution final volume 100 mL	or	3.5 g Copper Sulfate Solution final volume 50mL
4	reagent C alkaline copper tartarate solution	1ml reagent B+ 150 ml Reagent A final volume: 151 ml	or	0.5 ml reagent B+ 75 ml Reagent A final volume: 75.5 ml
5	Reagent C' alkaline tartarate solution	1ml water+ 150 ml Reagent A final volume: 151 ml	or	0.5 ml water+ 75 ml Reagent A final volume : 75.5 ml
6	Reagent D foline reagent	Folin reagent 2N 10 ml:10ml		
7	sodium deoxycholate (DOC) 0.15% m/V	dissolve 0.15g sodium deoxycholate final volume: 100 ml		
8	trichloroacetic acid 72% m/V	72 g TCA final volume: 100 ml		
9	phosphotungstic acid	72 g PTA acid final volume: 100 ml		
10	0.2 M NaOH	8 g NaOH final volume:1000 ml	or	4 g NaOH final volume: 500 ml

Reagent No 6 must be prepared prior to use.

Prepared by:	Verified by:	Approved by:
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