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# Diploma in Pharmacy 1<sup>st</sup> Year

## Pharmaceutics

### Experiment

**To demonstrate the clarity testing of sterile injections as per the monographs.**

#### **Aim:**

To demonstrate the clarity testing of sterile injections as per the monographs.

#### **Reference :**

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam ’

“Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 180 – 182

#### **Apparatus and Materials Required :**

Light source, a black and a white background.

#### **Theory :**

Clarity test is required for preventing the distribution and use of parenteral products having particulate matter. Clarity is a factor that needs to be considered seriously in parenteral preparations. Clarity testing is mainly performed through human visual inspection of the containers in a direct light against a black and a white background. As a result, the transparent particles are visible against black background and the coloured particles are visible against the white background. All manufacturing industries reuse this method regularly.

The method of visual inspection has some limitations. Due to this reason, the particulate matter can also be identified by passing the solution through a filter and then examining the filter under a microscope. Many automatic image analysis devices are developed (such as Quantimat 720 system 20), which focus image of particles on

a TV screen and concurrently a permanent record is also formed. There are some other devices available for identifying the particulate contamination; such devices are based on light absorption, light scattering, or change in electrical resistance. Coulter counter method is also used for detecting particulate matter.

## **Result :**

The clarity testing of sterile injections as per the monographs was studied.

