

## 4205 Examination Method of Decolourization for Plastics

This method applies to plastic packing components for pharmaceutical use with colouring agent.

**Preparation of test solution:** Take the test sample, and cut off three portions from the flat part, each with an inner surface area of  $50\text{cm}^2$  (10g for irregular test samples). Then cut into  $2\text{cm}\times 0.3\text{cm}$  or smaller size, and place them in three glass conical flasks with stopper respectively. Add 50ml each of 4% acetic acid, 65% ethanol, and *n*-hexane into each of the three conical flasks and close well. Incubate the closed flasks at  $60^\circ\text{C}\pm 2^\circ\text{C}$ ,  $25^\circ\text{C}\pm 2^\circ\text{C}$ , and  $25^\circ\text{C}\pm 2^\circ\text{C}$  for 2 hours respectively and allow to cool to room temperature. Separate the solution for the sample and use as the test solution.

**Preparation of blank solution:** Prepare the corresponding blank solution in the same manner as for the test solution except the same batch of extracting medium is used without test sample.

**Examination method:** Add 10ml each of test solution and corresponding blank solution into each of two 25ml Nessler cylinders. Place the Nessler cylinders under a white background to compare the colour.

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