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PHARMACEUTICAL INDUSTRY STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA

YBB 00352004-2015

**Test for Resistance to Attack of Glass by Boiling
Aqueous Solution of Mixed Alkali**

玻璃耐沸腾混合碱水溶液浸蚀性测定法

Test for Resistance to Attack of Glass by Boiling Aqueous Solution of Mixed Alkali

This standard applies to the test and classification for resistance of all kinds of pharmaceutical glass materials to attack of boiling aqueous solution of mixed alkali.

This method is to immerse the glass samples of a total surface area 10 ~ 15 cm² in the equal-volume of boiling mixed solution of 0.5 mol/L sodium carbonate and 1 mol/L sodium hydroxide for 3 hours. Then determine the mass of loss of the glass samples per unit surface area.

[Apparatus] Container (Figure 1): it is made of pure silver or alkali-resisting silver alloys or welding stainless steel (the constituents of welding stainless steel: 18% chromium, 10% nickel, 0.08% carbon and additional titanium); a bottom in hemispherical shape or a flat bottom AND a closely-stoppered cap FORM a cylindrical silver cup; the cap has a thick-neck and a small mouth for inserting a thermometer, and it is equipped with four hooks to hang samples; if necessary, one gasket made of a stable material can be added to ensure the sealing of the joint between cup body and cap.

Condensers: spherical- or straight-shape, 400 mm long, and made of chemical attack resistant glass.

Gooch glass funnels (Figure 2): made of chemical attack resistant glass; the upper mount is connected with the condenser through the stopper; the lower tube of the funnel is connected to the neck of the container through the stopper; the stopper shall be made of a stable material; they shall be boiled in water for 60 minutes in advance.

Heating bath-pool: it is equipped with a controller which is capable of heating glycerin and controlling at any constant temperature between 100 ~ 120°C; and also equipped with a stirring apparatus.

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