

UNITED STATES DEPARTMENT OF COMMERCE
WASHINGTON 25, D.C.

National Bureau of Standards
Certificate

Standard Sample 41
Dextrose

Ash less than 0.01%

Moisture less than 0.1%

The specific rotation of dextrose at equilibrium is represented by the formula

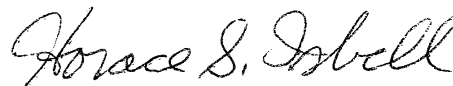
$$\left[\alpha \right]_{5461A}^{20\text{ }^\circ\text{C}} = 62.032^\circ + 0.04257^\circ c,$$

where c is grams of anhydrous dextrose weighed in vacuo and contained in 100 ml of solution. This formula is valid for values of c between 6 g and 32 g. [Bul. BS **13**, 633 (1916) S293; NBS Circular C440, p. 83 (1942)].

$$\left[\alpha \right]_D^{20\text{ }^\circ\text{C}} = 52.7 \quad c = 4 \text{ g per } 100 \text{ ml.}$$

Dextrose absorbs surface moisture which can be removed by drying in vacuum at 60 to 70 °C.

For the Director



Chief, Organic Chemistry Section
Physical Chemistry Division

Lot No. 6094

Date: 4/5/63