



Figure 5.1: Limit – dextrinase standard curve on Limit – Dextrinase (adapted from “The Limit – Dextrinase Method”, Megazyme International Limited, Ireland)

Units of activity were calculated as follows:

The limit – dextrinase activity was determined by reference to the standard curve in Fig. 5.1. The standard curve converts the UV absorbance values into milliUnits of limit – dextrinase activity per assay:

Units of limit dextrinase activity / Kg Flour

= milliUnits per assay (that is per 500 μ l) \times (1 / 1000) \times 32000

= milliUnits per assay \times 32

Where:

1 / 1000 = converts milliUnits to Units; 32000 is the conversion factor used to change the activity / sample to the activity in 1 Kg of flour as the flour is extracted in 16 ml of extraction buffer per g flour, and the assay is carried out on 500 μ l of extract, thus (16 \times 1000) / 0.5 = 32000