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MOA of Yeast β-Glucan

- The treatment of the sample: Weigh 400mg glucan/mannan and put in the 200mL flask, add 6mL HCL(37%) and 100-120mL water, heat to 121°C for 60min, then cool. Adjust the hydrolysate to pH=6-7 using the NaOH solution then put into the 200mL volumetric flask, then filtrate it using the 0.45 um membrane.
- 2. The condition of chromatography: Mobile phase: water; speed: 0.6mL/min; temperature:80°C;
- 3. Standard curve: prepare the 400,800,1200,1600,2000mg/L standard glucose/mannose solution, and determine it with chromatography respectively, and get the standard curve of the area and the concentration.
- 4. Determination of sample: determine the sample solution and get the area of the glucose, calculate the content of the glucan/mannan using the following formula:

$$X = \frac{A_1 \times 0.2 \times 100}{m_1 \times 1000} \times 0.9 \times F \dots (1)$$

X ——content of glucan or mannan, %;

A1——the glucose mannose content of the sample solution calculated by the area and the standard curve, mg/L;

mi—sample weight, g; 0.2—volume of the sample solution, L; F—eorrection factor,1.25;