่ง การเกาะเกาะเกาะ การเกาะ เกาะเกาะเกาะเกาะ เกาะเกาะ เก็บพื้นงแผ่งแต่หว

##C626795
KEY WORD: CYCLODEXTRIN GLYCOSYLTRANSFERASE/Bacillus sp. A11

/IMMUNOAFFINITY CHROMATOGRAPHY PORNCHAI KIM : PURIFICATION OF CYCLODEXTRIN

GLYCOSYLTRANSFERASE BY IMMUNOAFFINITY CHROMATOGRAPHY .

THESIS ADVISOR : ASSOC. PROF. PIAMSOOK PONGSAWASDI , Ph.D., THESIS CO-ADVISOR : ASSIST. PROF. TIPAPORN LIMPASENI, Ph.D.,

SOMPORN KAMOLSIRIPICHAIPORN, Ph.D., 106 PP. ISBN 974-634-945-7

A polyclonal antibody prepared against cyclodextrin glycosyltransferase (CGTase) was purified from rabbit antiserum by ammonium sulfate precipitation with a 45 % saturation and DEAE-cellulose ion exchange chromatography. Fractions were tested for the presence and purity of IgG by SDS-polyacrylamide gel electrophoresis. The result demonstrated that antibody against CGTase of high purity was obtained by the described purification method and the antibody titer was determined to be 1:28 by Ouchterlony immunodiffusion.

The purified antibody was linked to CNBr-activated Sepharose 4 B and used for immunoaffinity purification of CGTase. The bound enzyme was eluted with 3.5 M sodium thiocyanate in 50 mM ammonium hydroxide, pH 10.5, at a flow rate 0.1 millilitre/minute at room temperature. The specific activity of the purified CGTase was increased 155 folds and about 45 % of the total activity was recovered. The prepared enzyme was separated into two bands after non denaturing-polyacrylamide gel electrophoresis, but showed only a single band in SDS-polyacrylamide gel electrophoresis. molecular weight of the protein band was estimated to be 72,000 dalton.

ภาควิชา	
สาขาวิชา	หลักสูตรเทคโนโลยีทางชีวภาพ
ปีการศึกษา	2539

ลายมือชื่อนิสิต 📉 ช	2M
ลายมือชื่ออาจารย์ที่ปรึกษา	worm -flet
ลายมือชื่ออาจารย์ที่ปรึกษาร่วม	Am Dulian
	_