

15 %, -

( ) .

: 1.

” , 2003. – 254 . 2. . . . . , 1966. – 520 .

3. . . . . , 1984. – 463 .

31.10.2007

577.153

. . . . . , . . . . . “ ”

It was researched the chemical method of immobilization of ferments with a cross-linking agent – an glutaric aldehyde, as carrier was used silica gel of the mark KSK-G, ferment – amylase. The optimum parameters of the undertaking covalent immobilization were determined.

( ) .

[1, 2]

- 1) ;
- 2) - ( - ) ;
- 3) - ;
- 4) - .

0,25 < d < 0,5 .

= 350 °

3-

5 %-

100<sup>3</sup>

30

100 ° 1 .

20-

120 °

1 .

[3]:

$m( ) = 0,2001$  ;  $V( . 0,01 \text{ N HCl} ) = 12,5$  <sup>3</sup>;  $V( \text{HCl} ) = 2,5$  <sup>3</sup>;

( 3 ) :  $V_{1(\text{NaOH})} = 0,75$  <sup>3</sup>;

$V_{2(\text{NaOH})} = 0,76$  <sup>3</sup>;  $V_{3(\text{NaOH})} = 0,75$  <sup>3</sup>,  $V_{(\text{NaOH})} = 0,753$  <sup>3</sup>;

$= 0,003$  / <sup>3</sup>;  $n_{(\text{NH}_2)} = 0,435$  / .

80 – 120 °C ,

= 100 °C.

40 – 120 .

100 .

. 1

100<sup>3</sup>

2,5<sup>3</sup> 2,5 %-

= 22 °

20 .

. ( ) - 5<sup>3</sup>  
 10 / 3. 24  
 = 20 - 24 ° .  
 ,  
 0,1 %- NaBH<sub>4</sub> - 30 .  
 ( -  
 )  
 : 5<sup>3</sup> 1 %- -  
 ( ) 1 -  
 - .  
 8 :  
 1 = 5,383 ; 2 = 5,5 ; 3 = 5,783 ; 4 = 6,167 ; 5 = 6,25 ; 6 = 8,47 ;  
 7 = 12,82 ; 8 = 33,33 . -  
 . - -  
 , .  
 -  
 ( = 100 °C, = 1 ) -  
 , ,  
 5 - 8 , , -  
 3- -  
 - -  
 , .  
 : 1. . , 1986. - 190 . 2. . , . , -  
 - // . , 1990. - 2. - . 223 - 229.  
 3. . 12 11/14. C :  
 . 12 11/14; . . , . . . . - 1084300/SU;  
 27.08.82. . 07.04.84. . 13.

16.10.07