

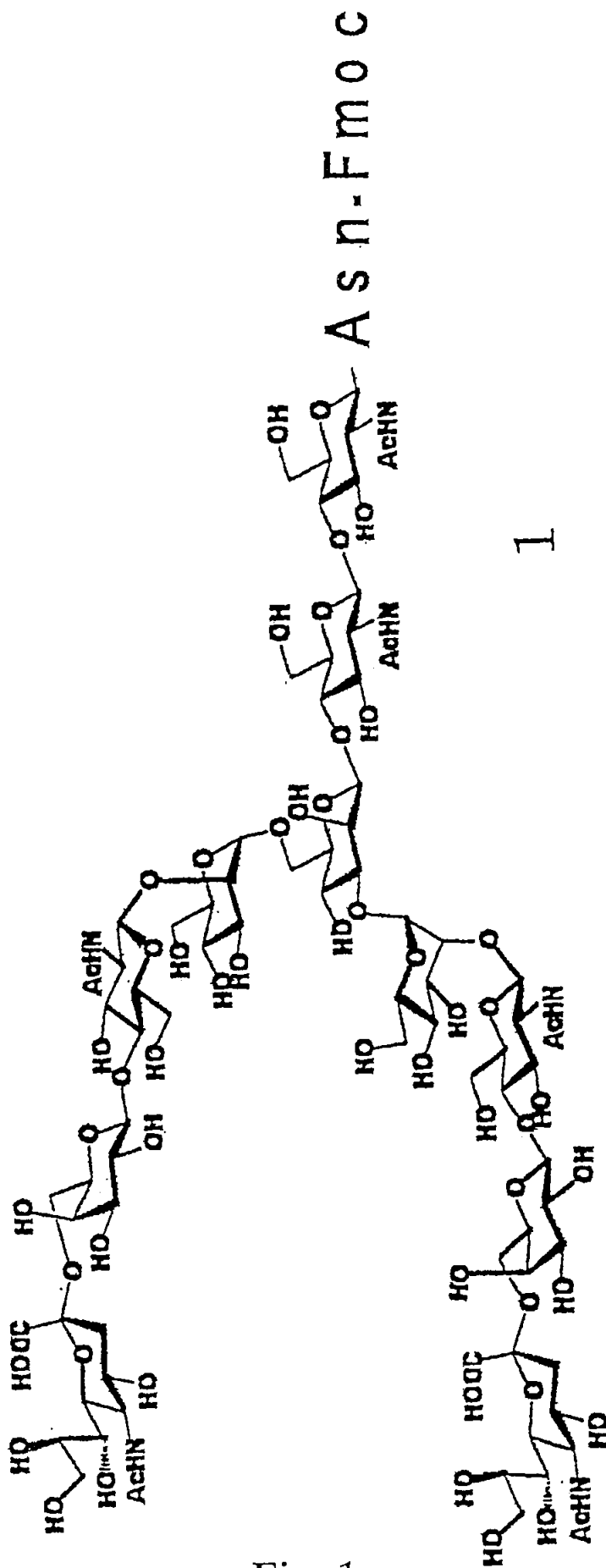
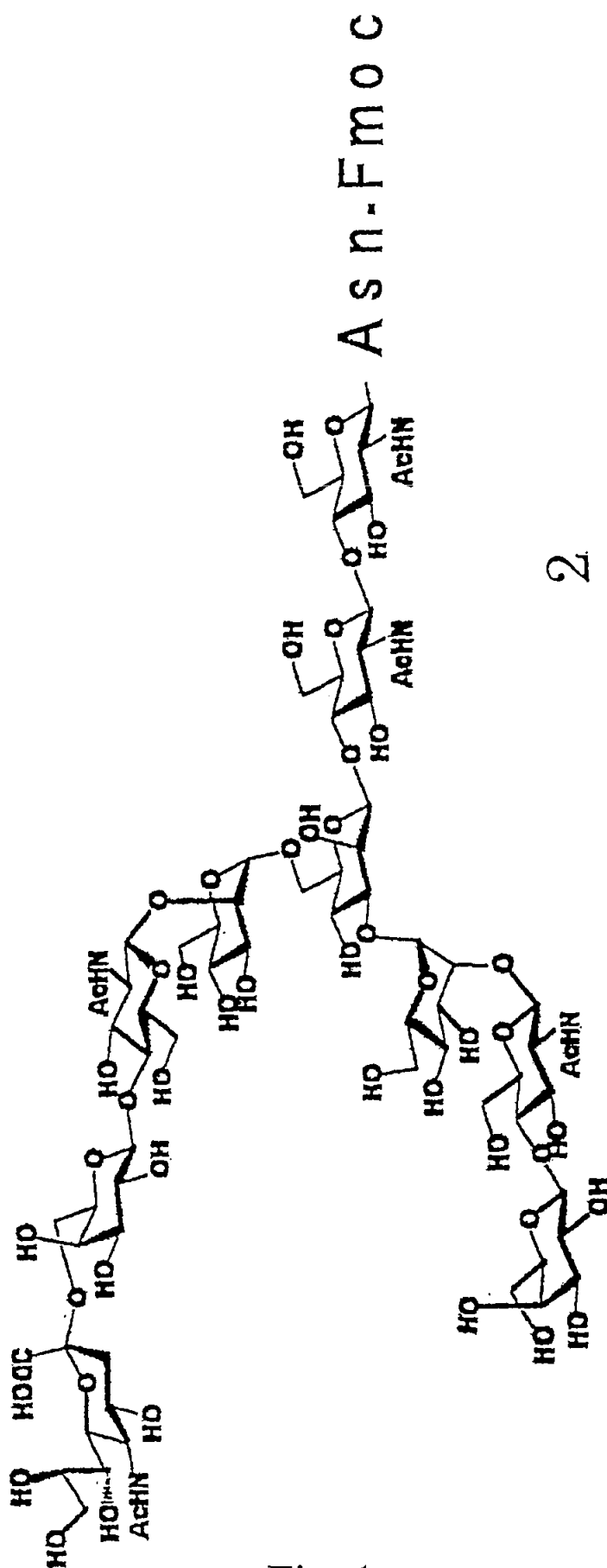


Fig. 1
1/12



2

Fig. 1
1/1/12

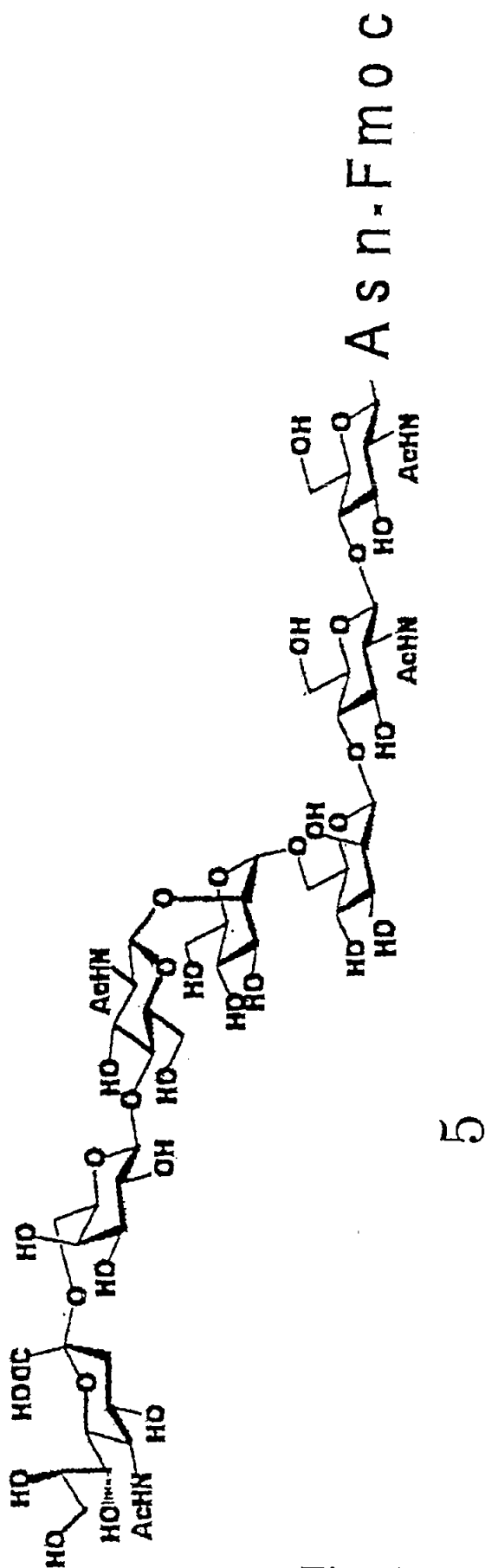


Fig. 1
1/2/12

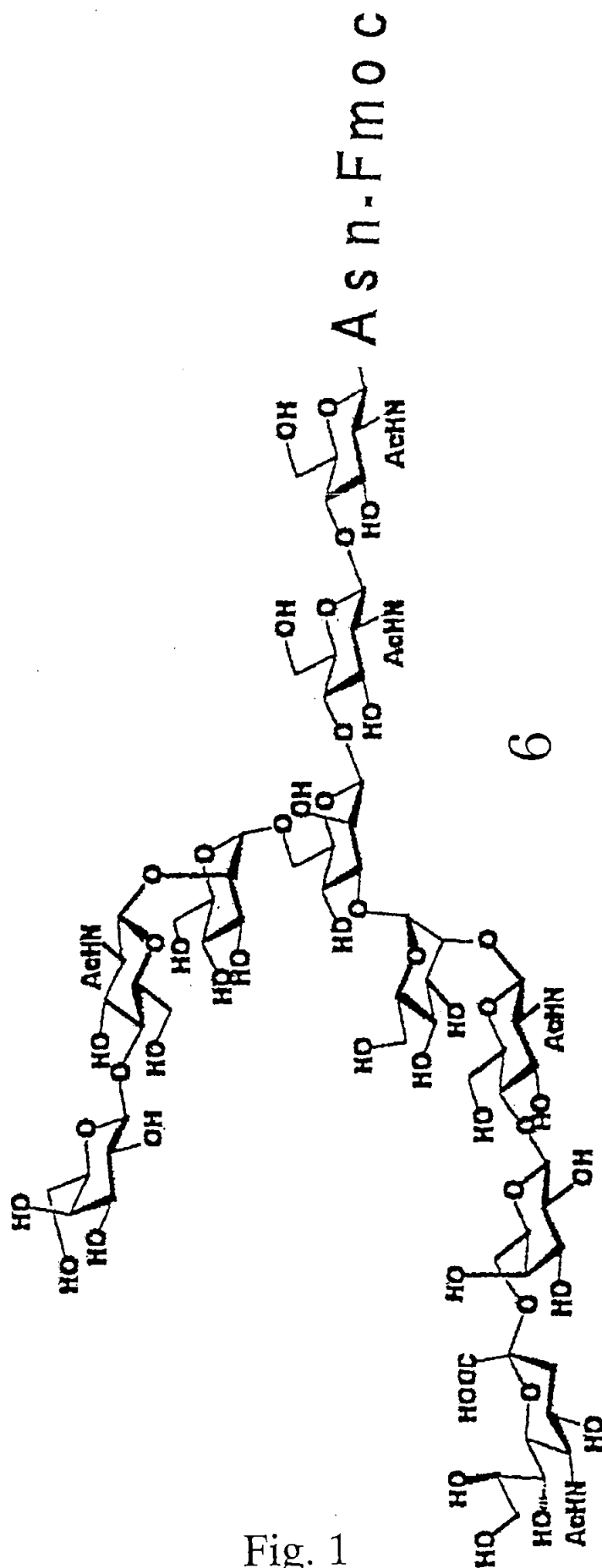


Fig. 1
1/3/12

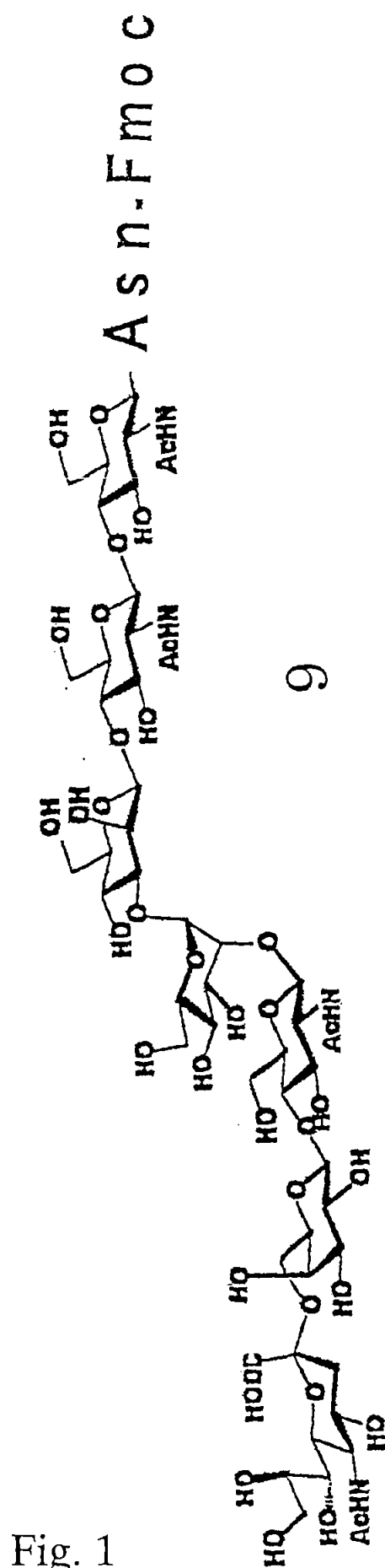


Fig. 1
1/4/12

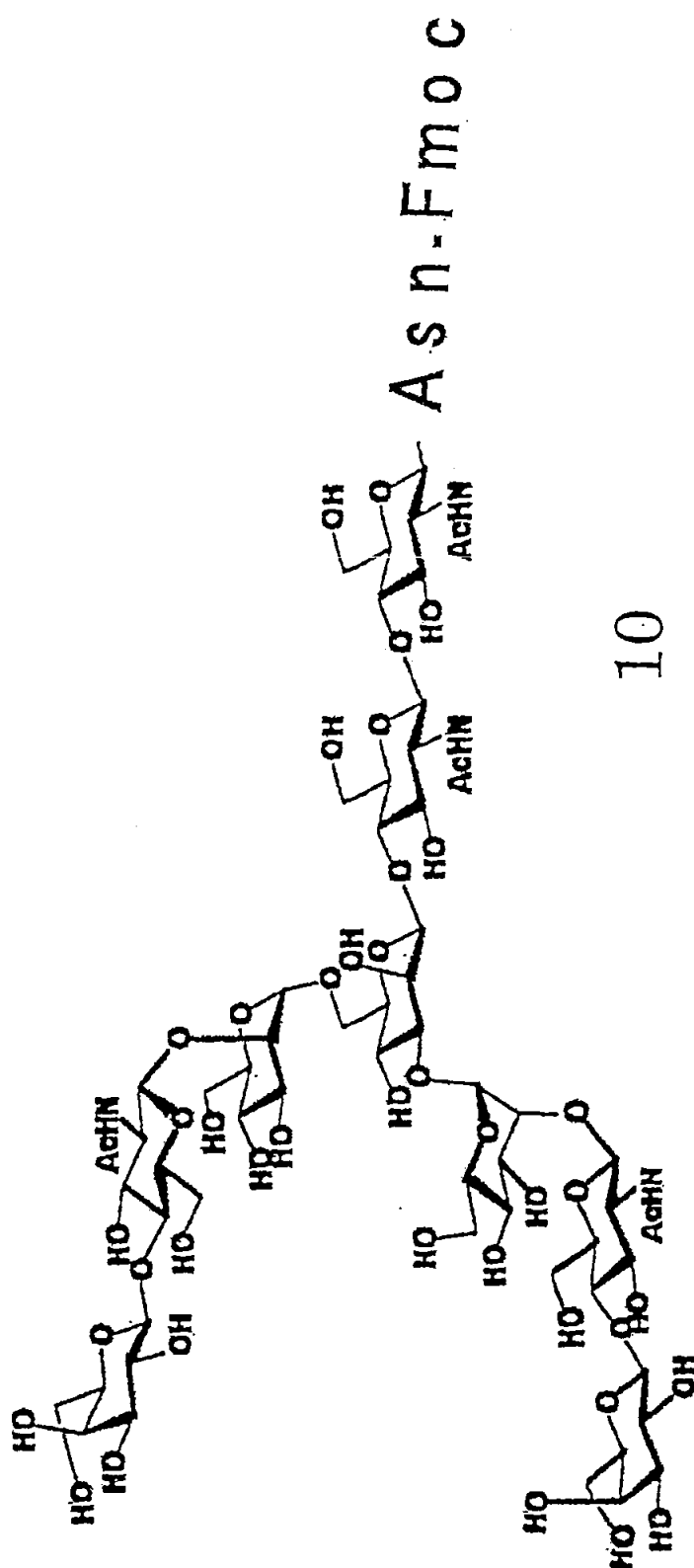
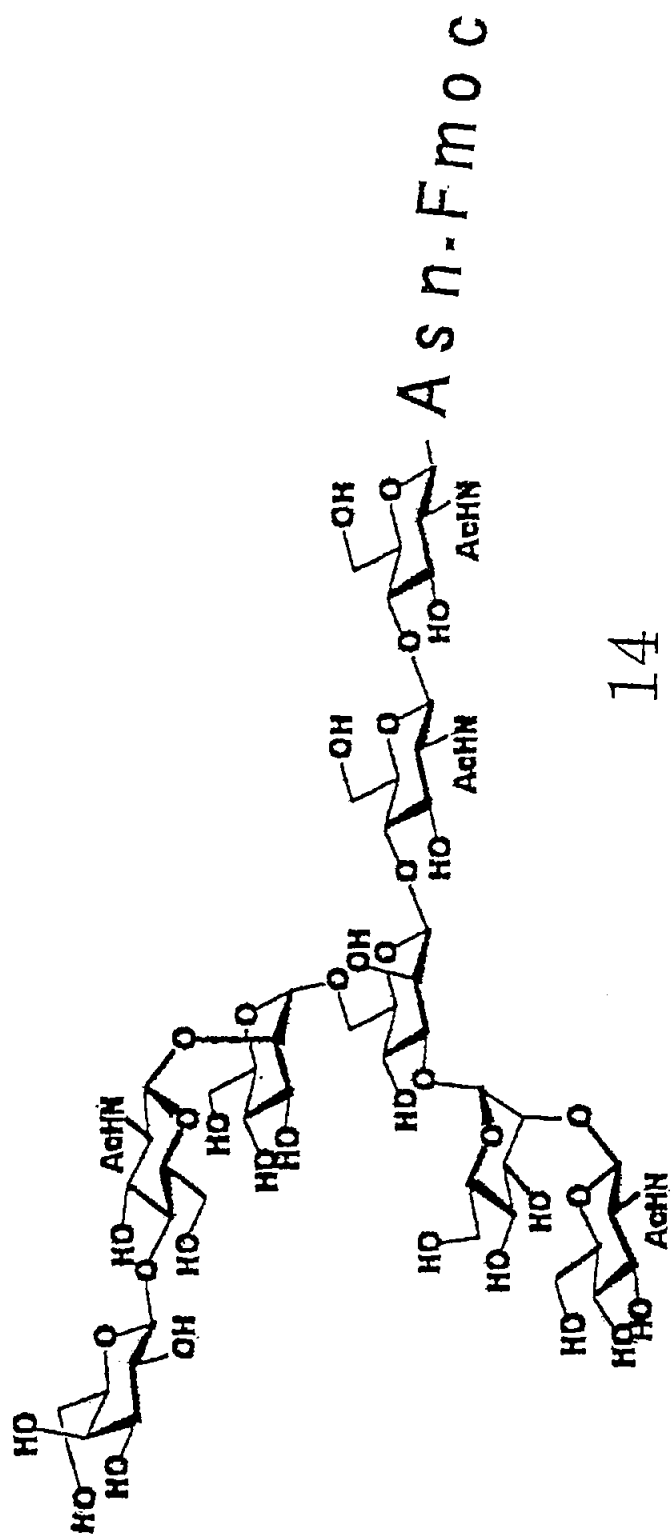


Fig. 1
1/5/12



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Fig. 1
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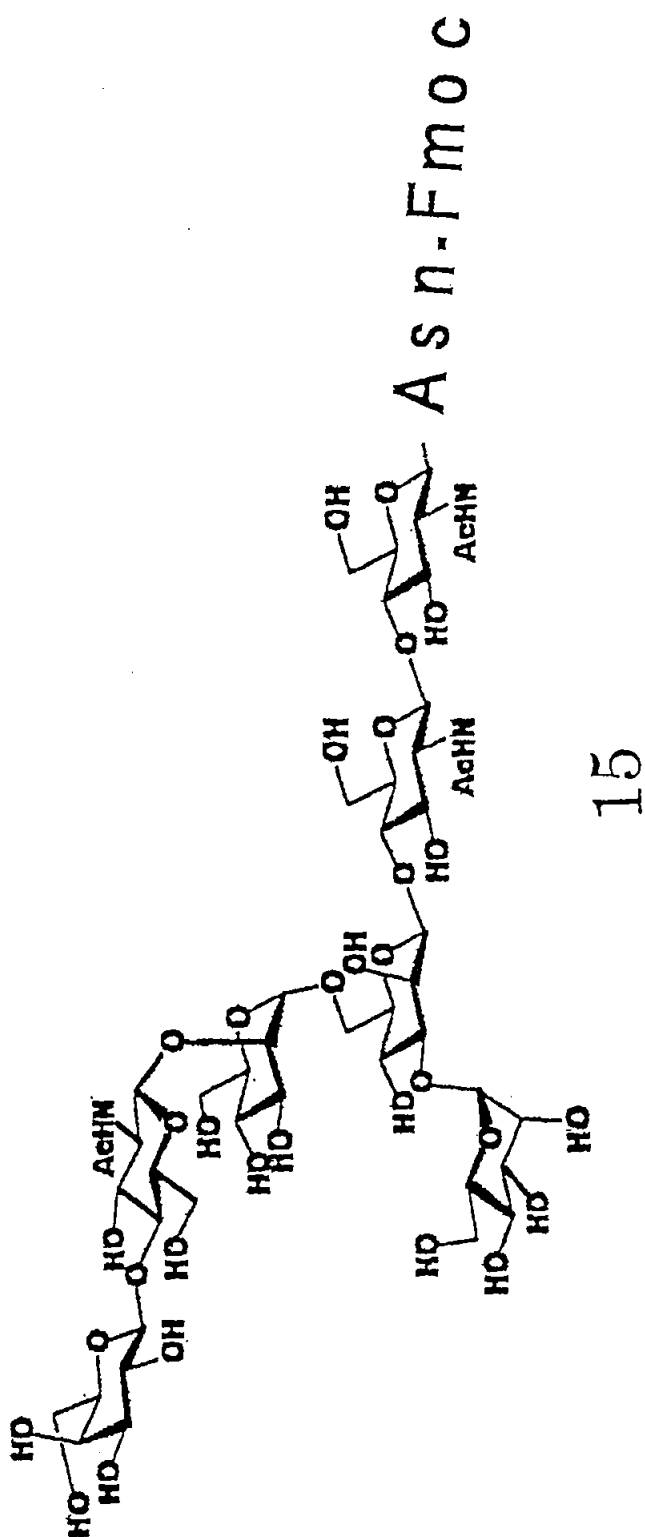
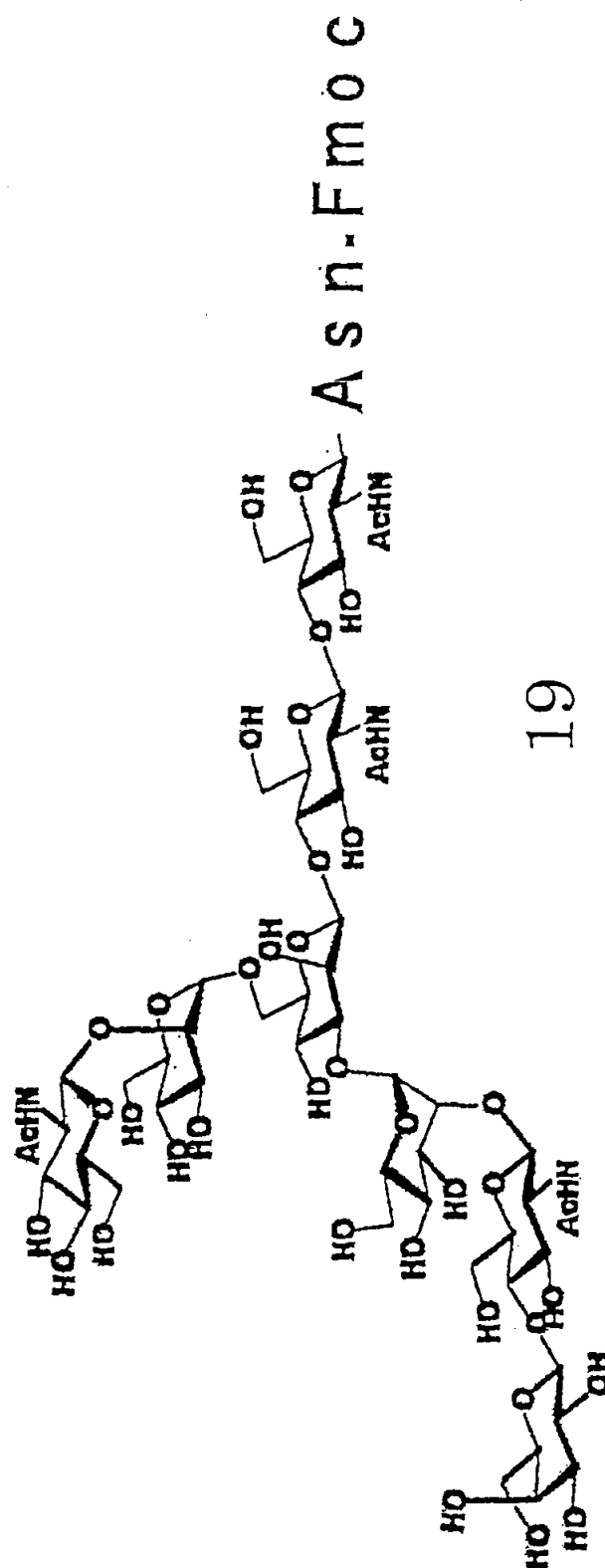
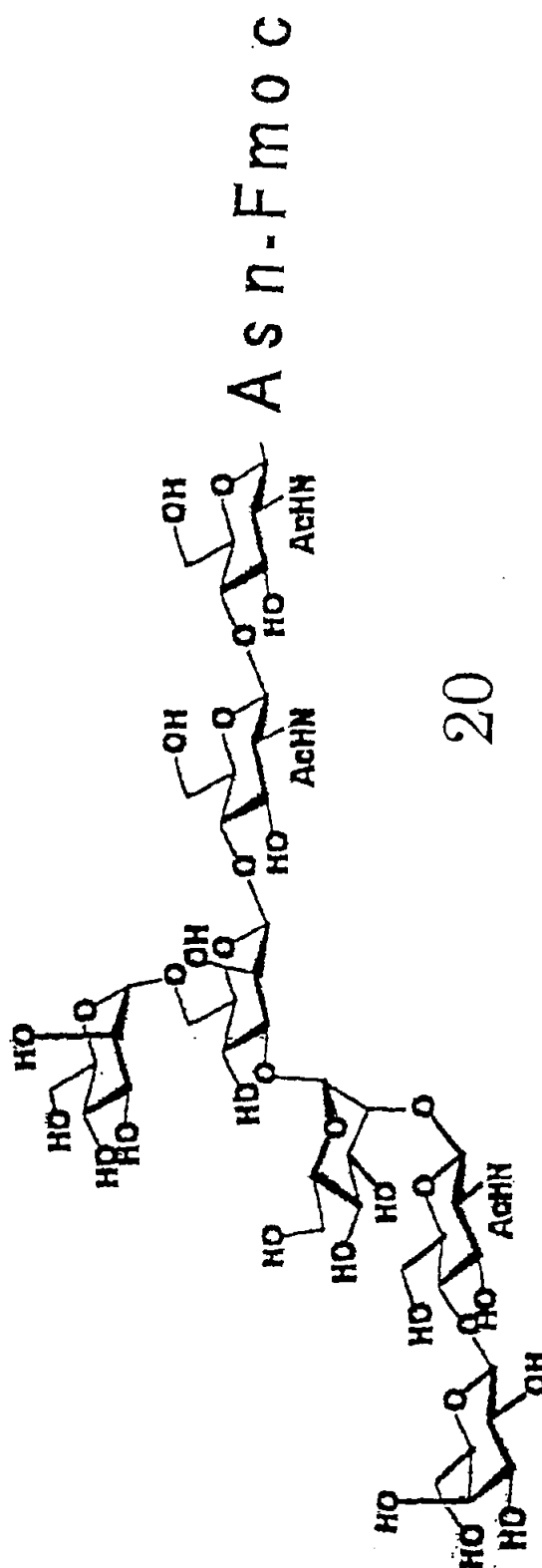


Fig. 1
1/7/12



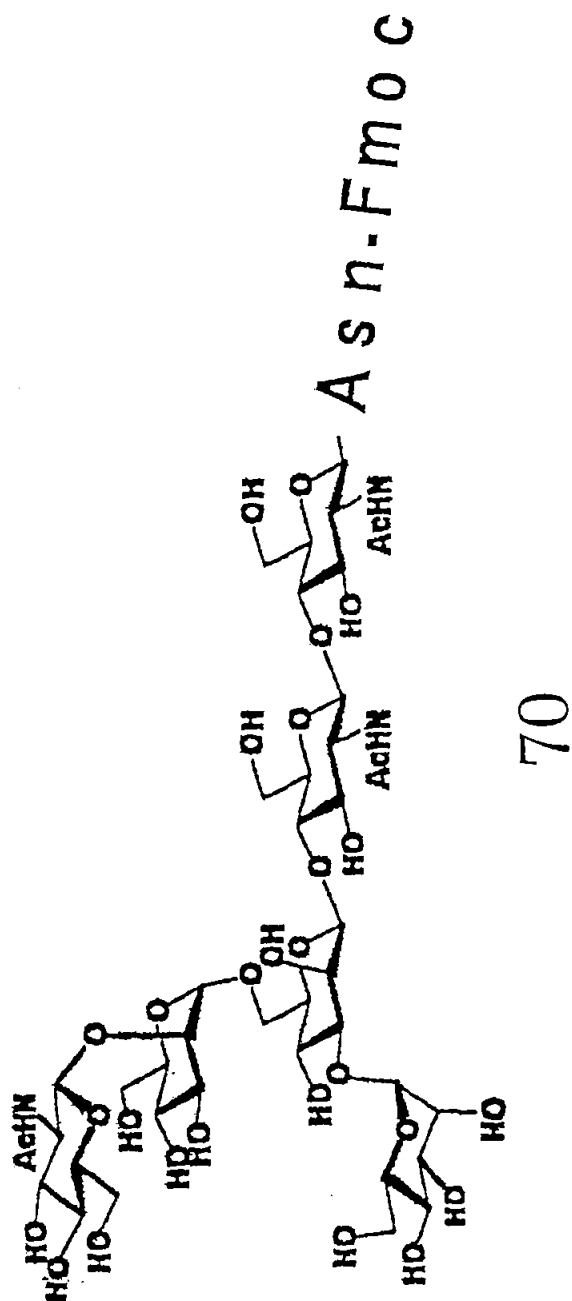
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Fig. 1
1/8/12



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Fig. 1
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Fig. 1
1/10/12

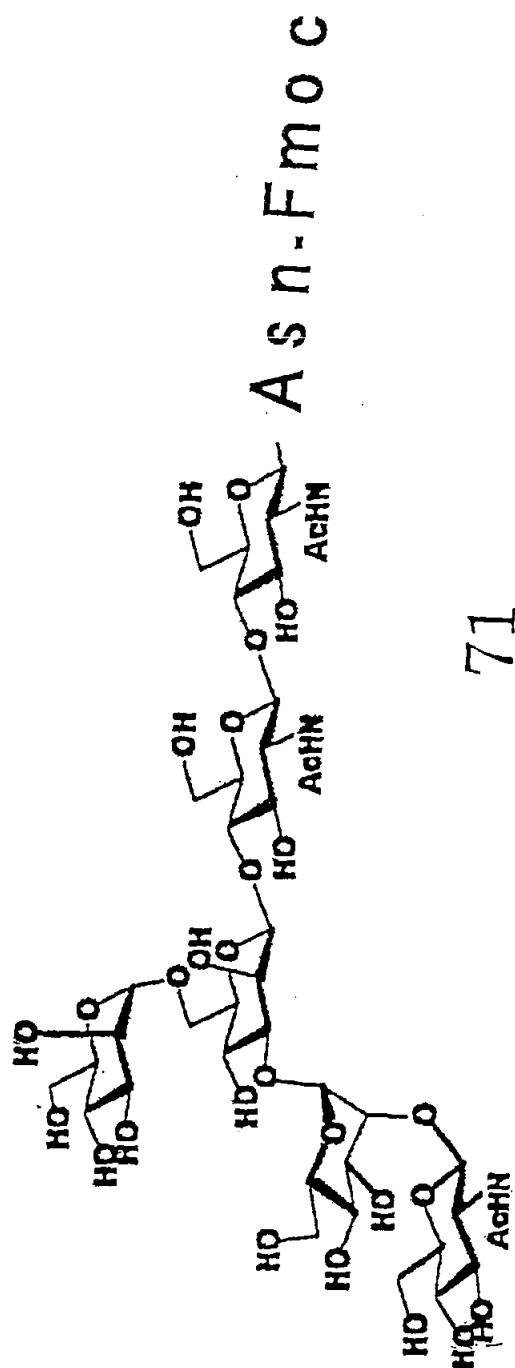
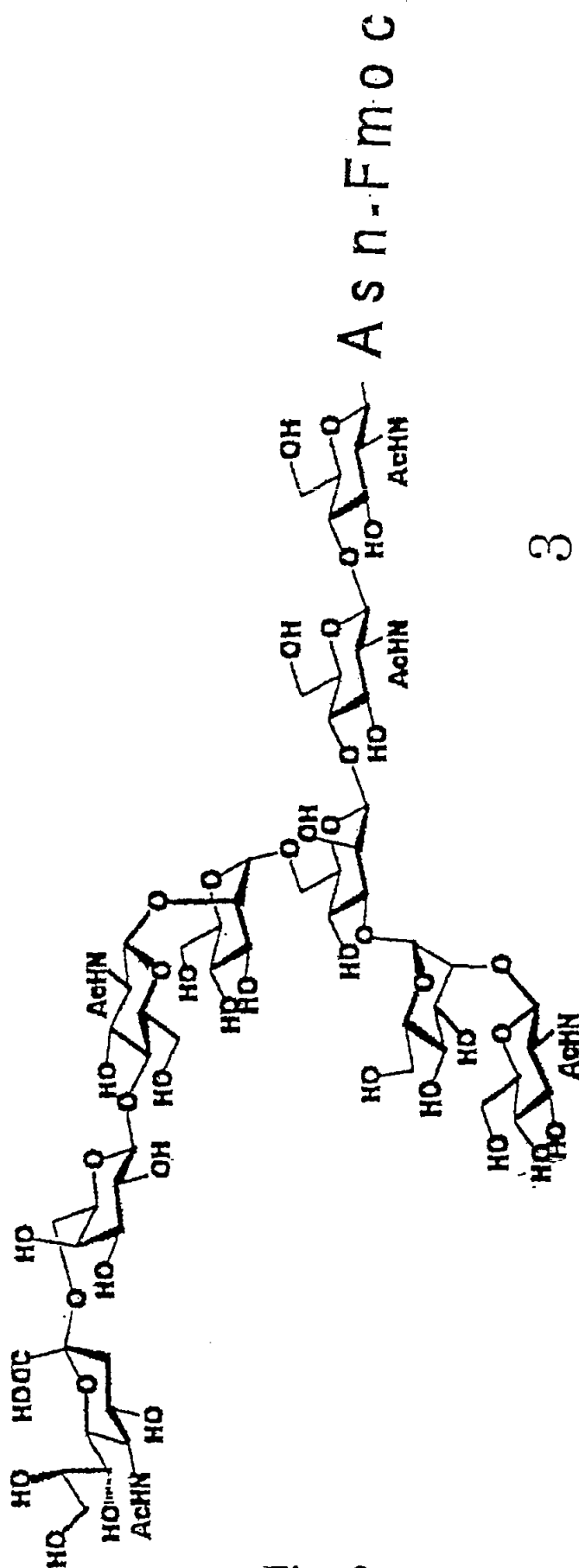


Fig. 1
1/11/12



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Fig. 2
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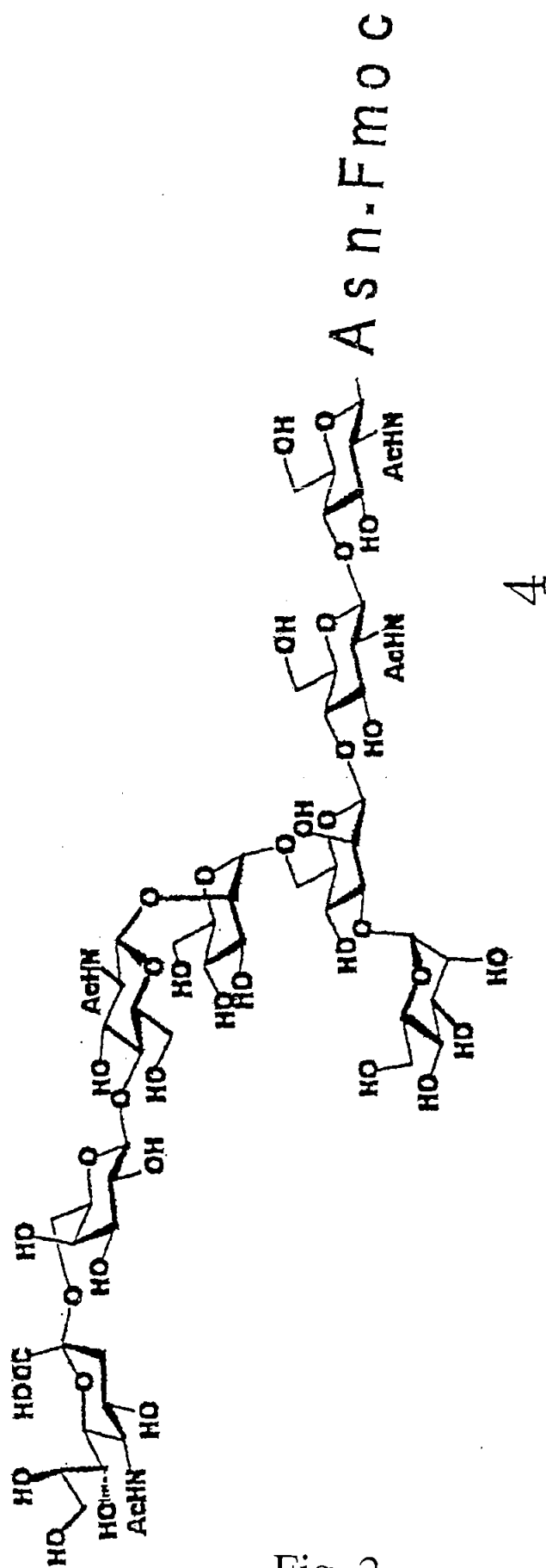


Fig. 2
2/1/12

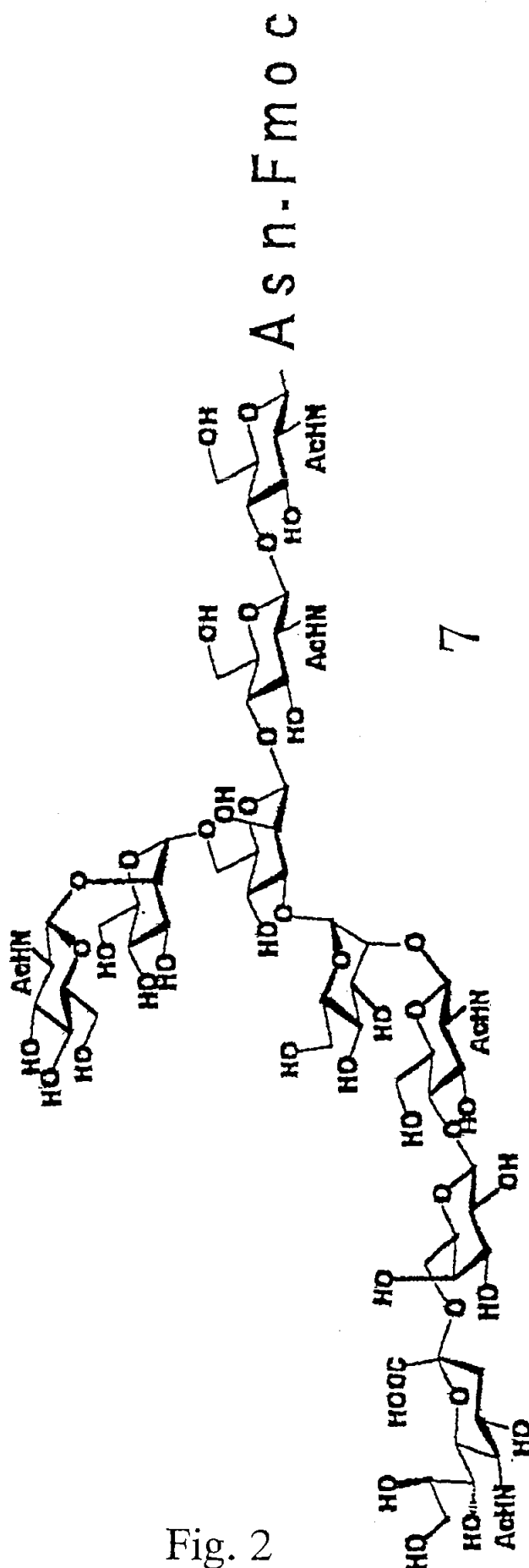
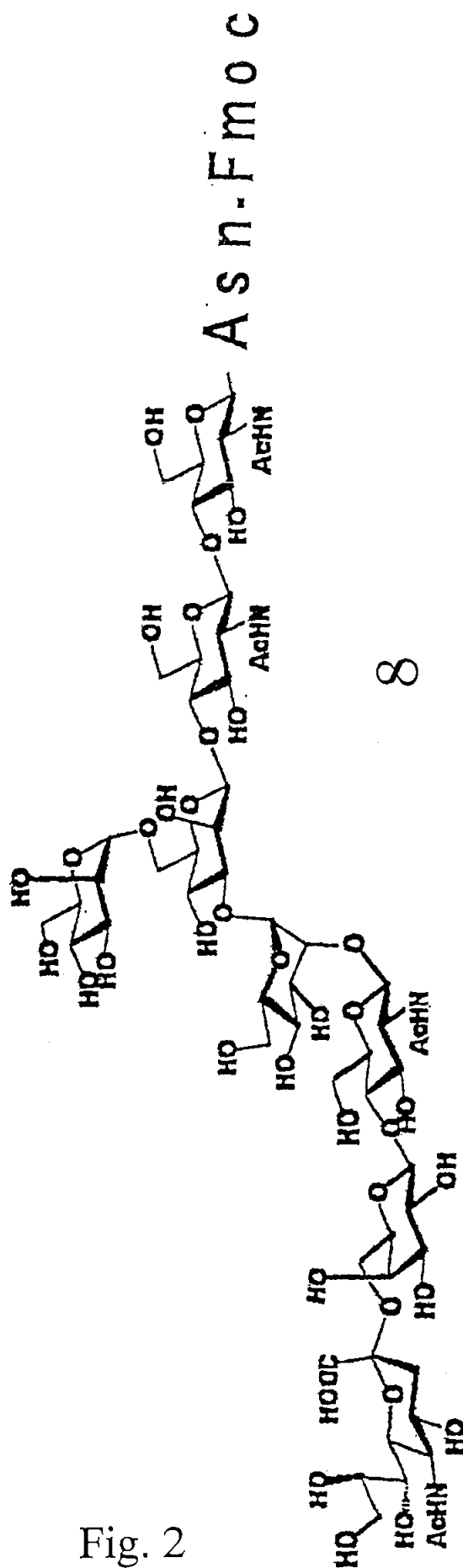


Fig. 2
2/2/12



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Fig. 2
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Asn-Fmoc

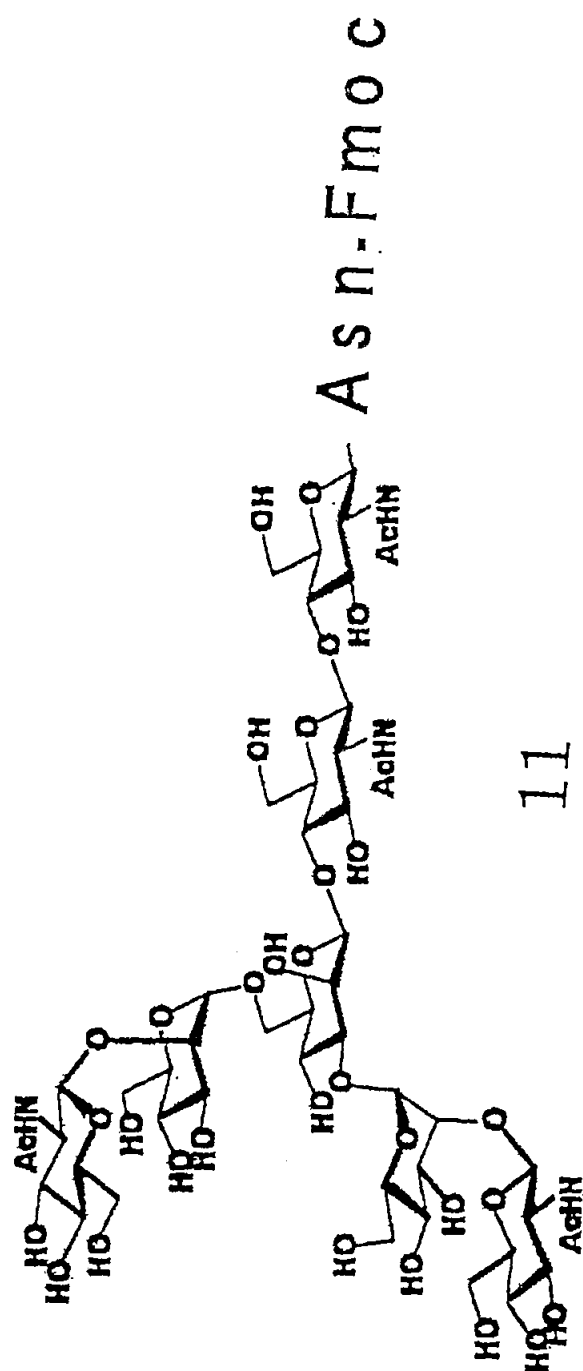
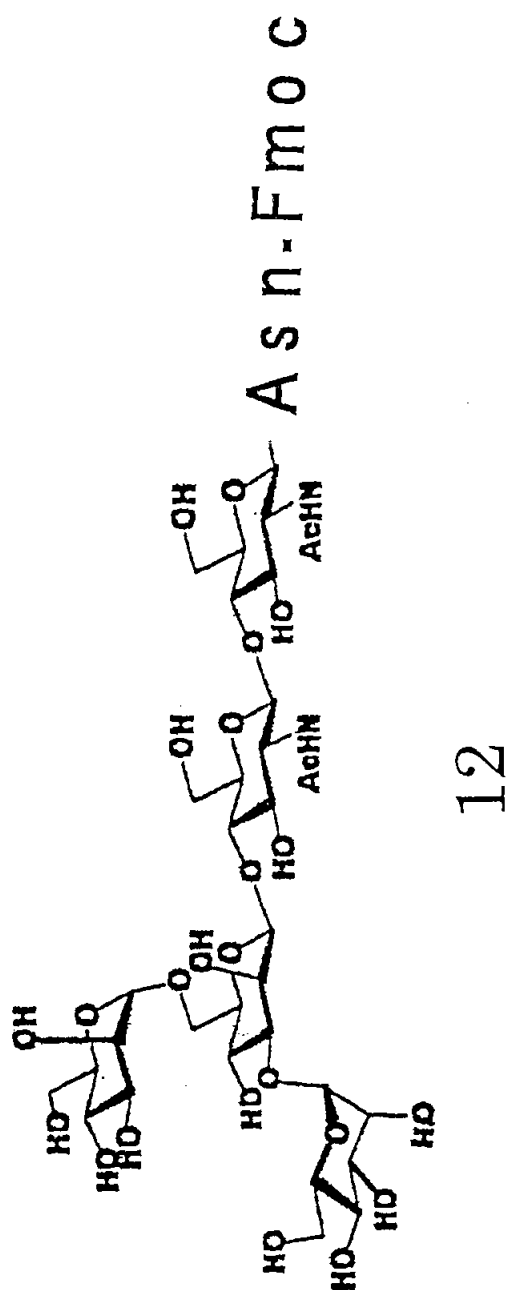
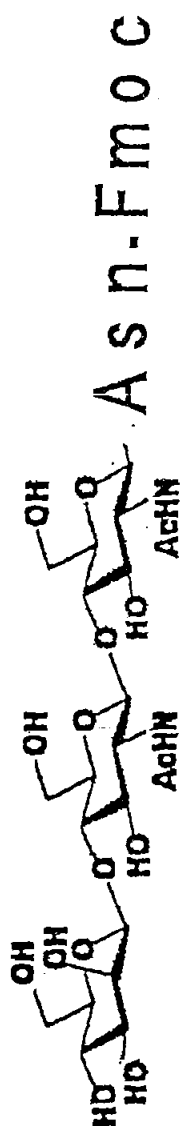


Fig. 2
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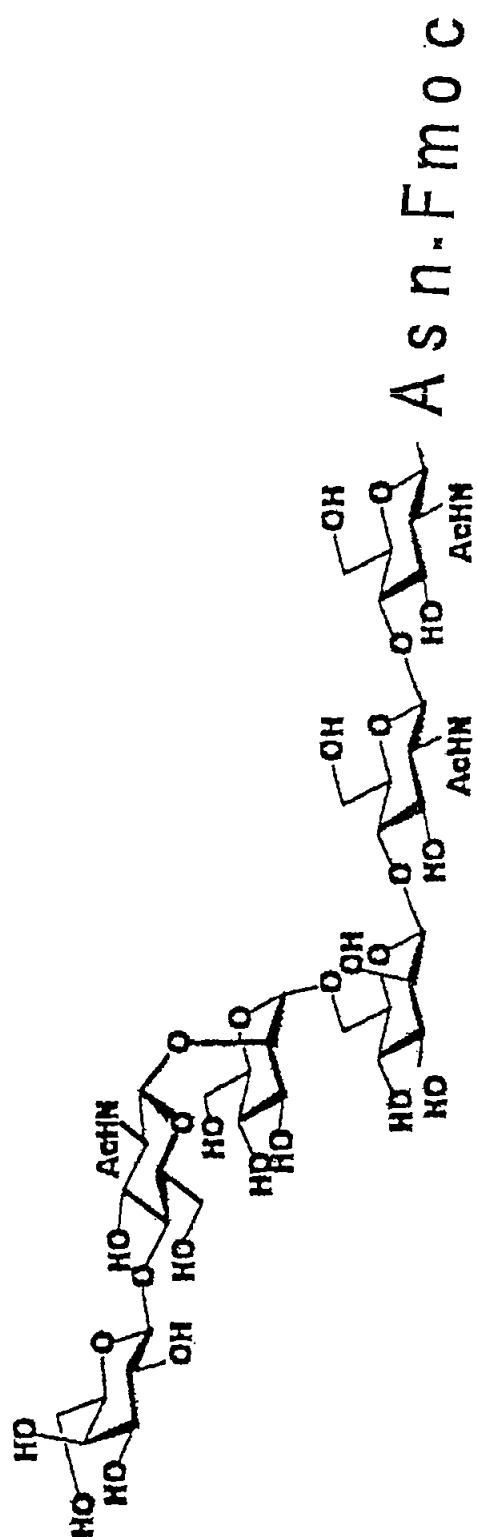
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Fig. 2
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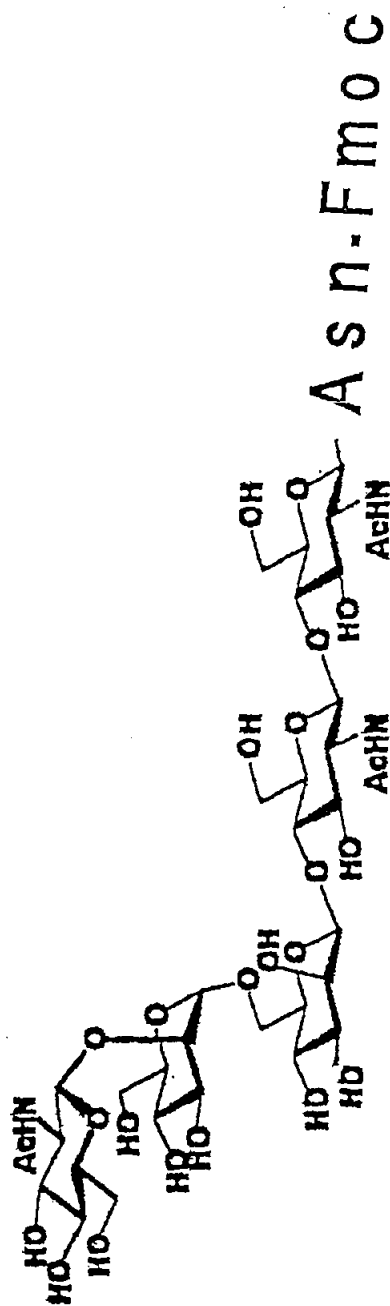
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Fig. 2
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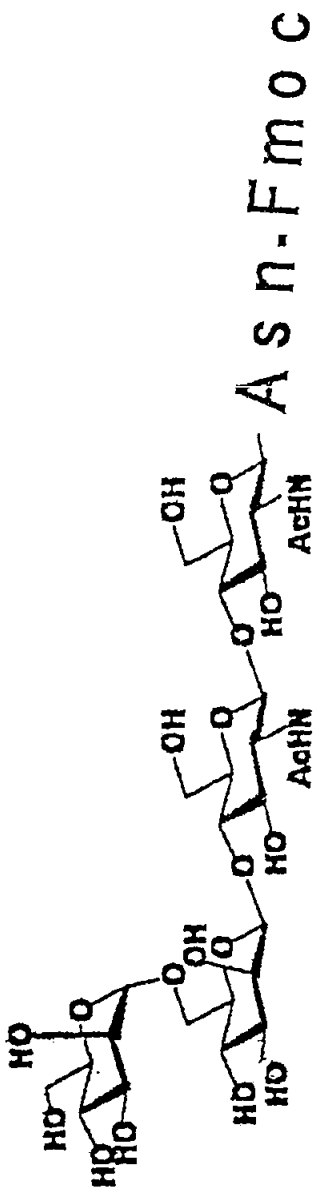
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Fig. 2
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Fig. 2
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Fig. 2
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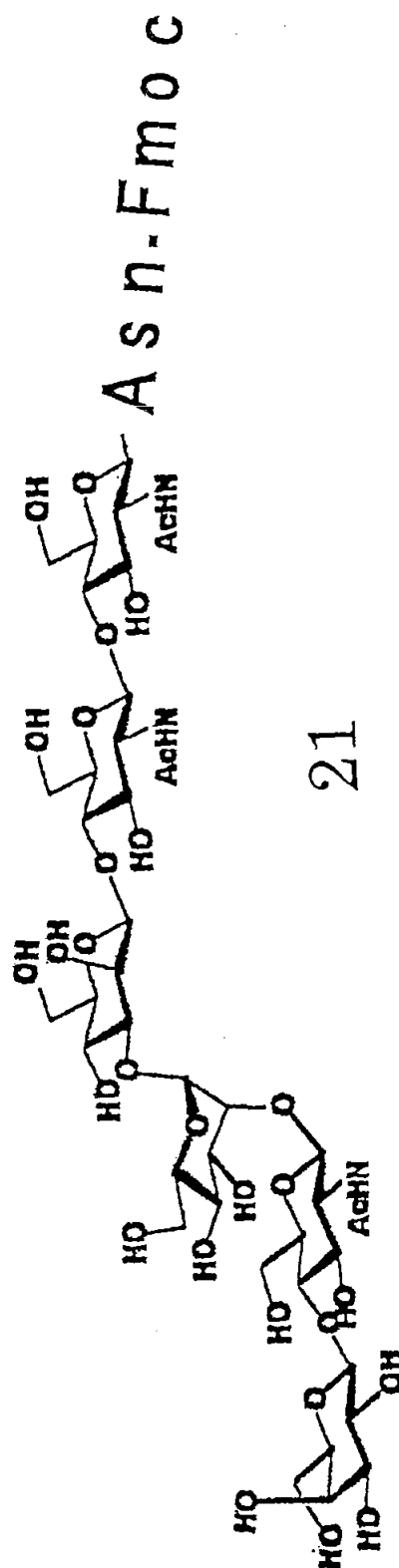


Fig. 2
2/10/12

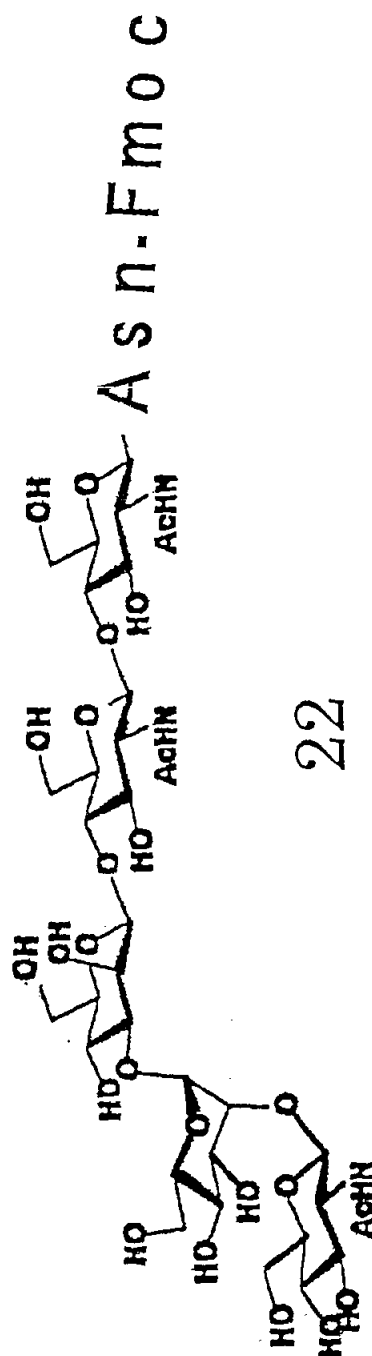


Fig. 2
2/11/12

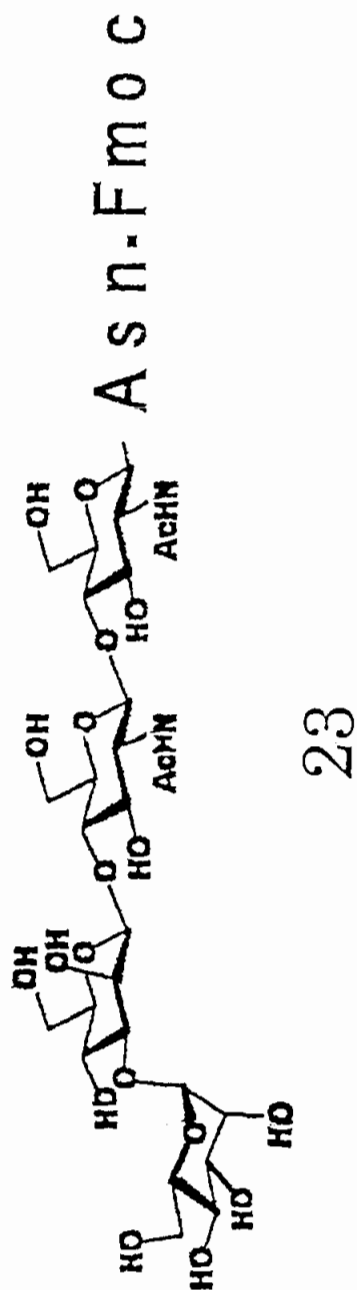
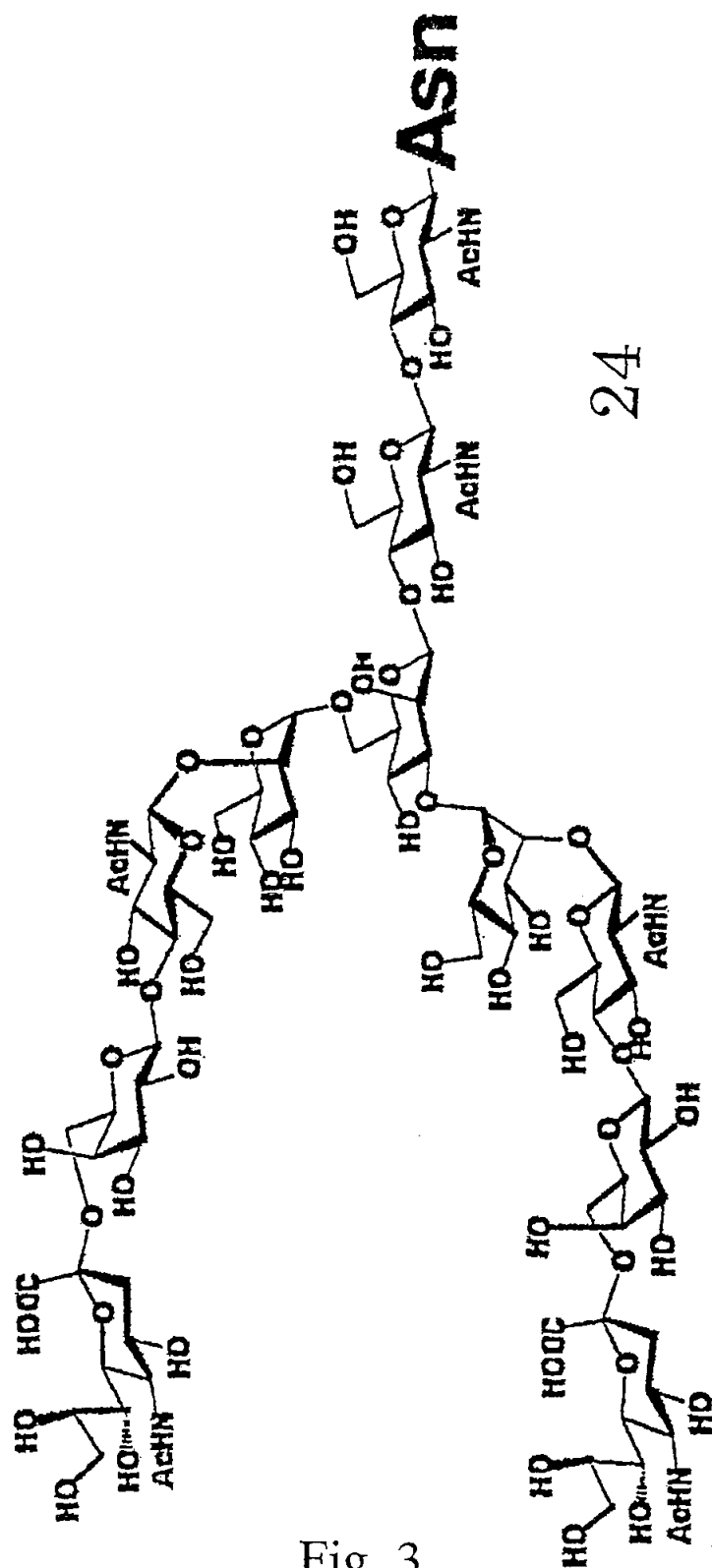
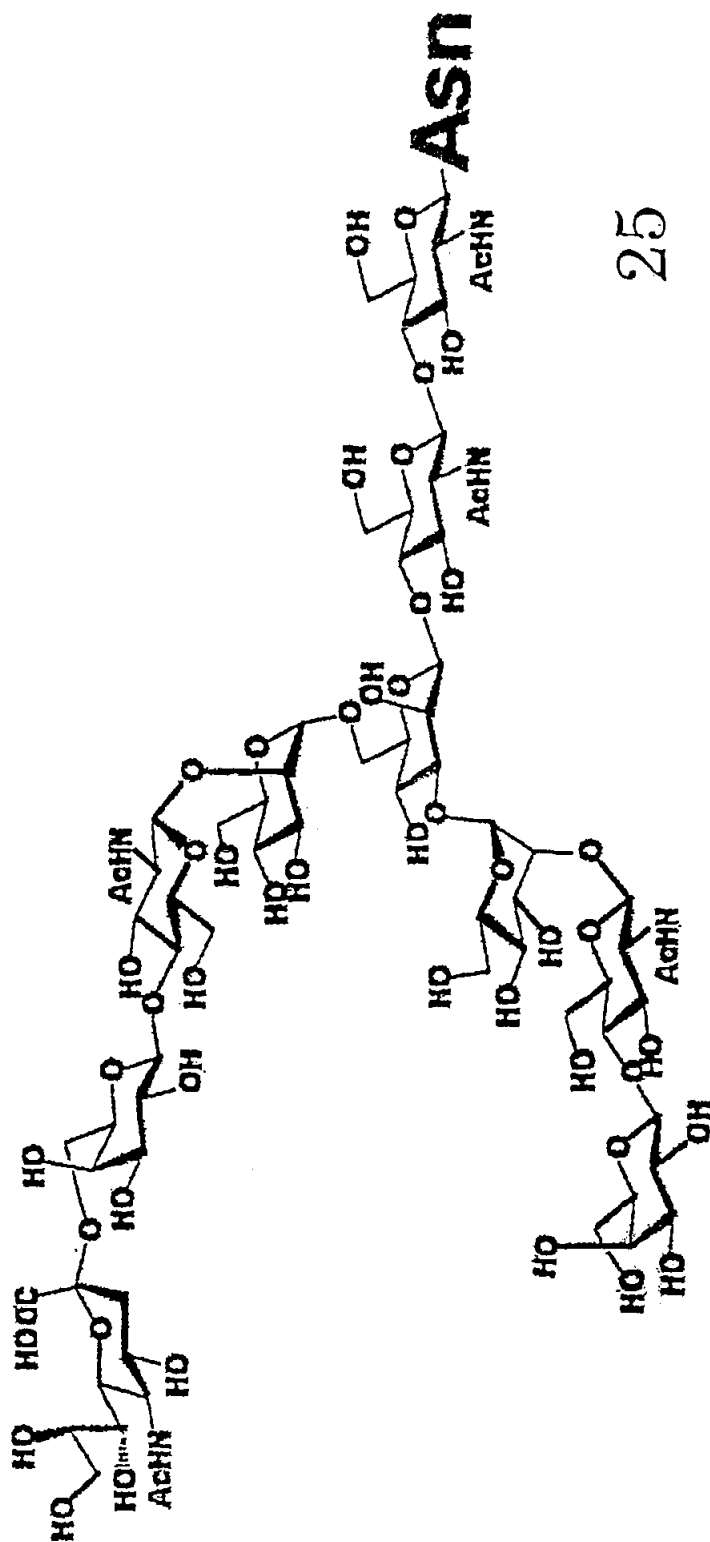


Fig. 2
2/12/12



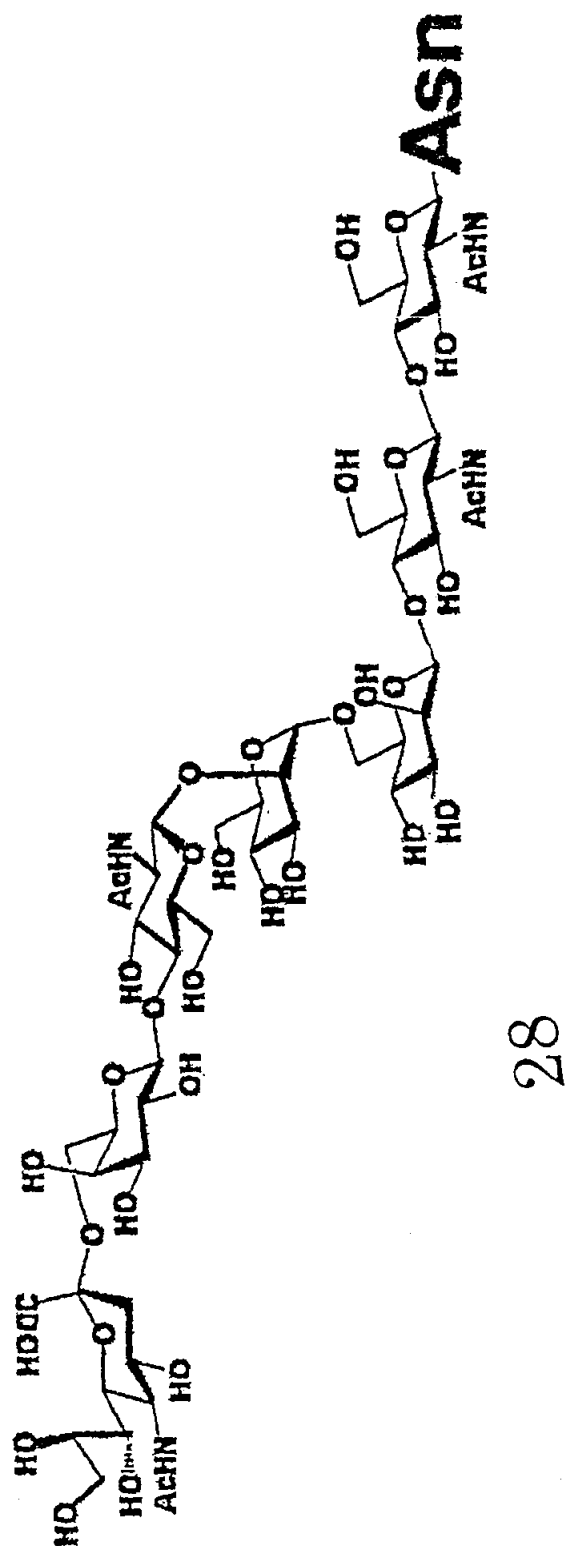
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Fig. 3
3/12



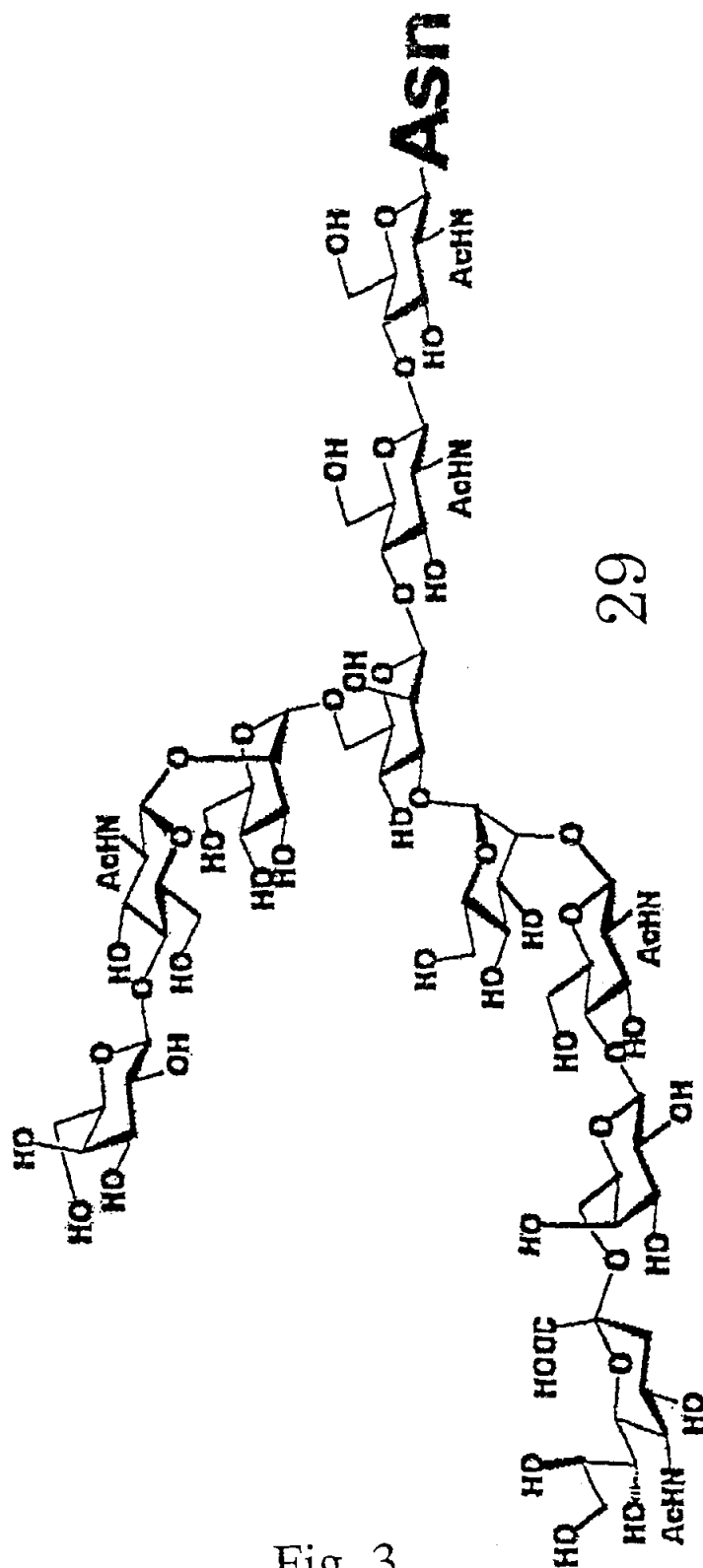
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Fig. 3
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Fig. 3
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Fig. 3
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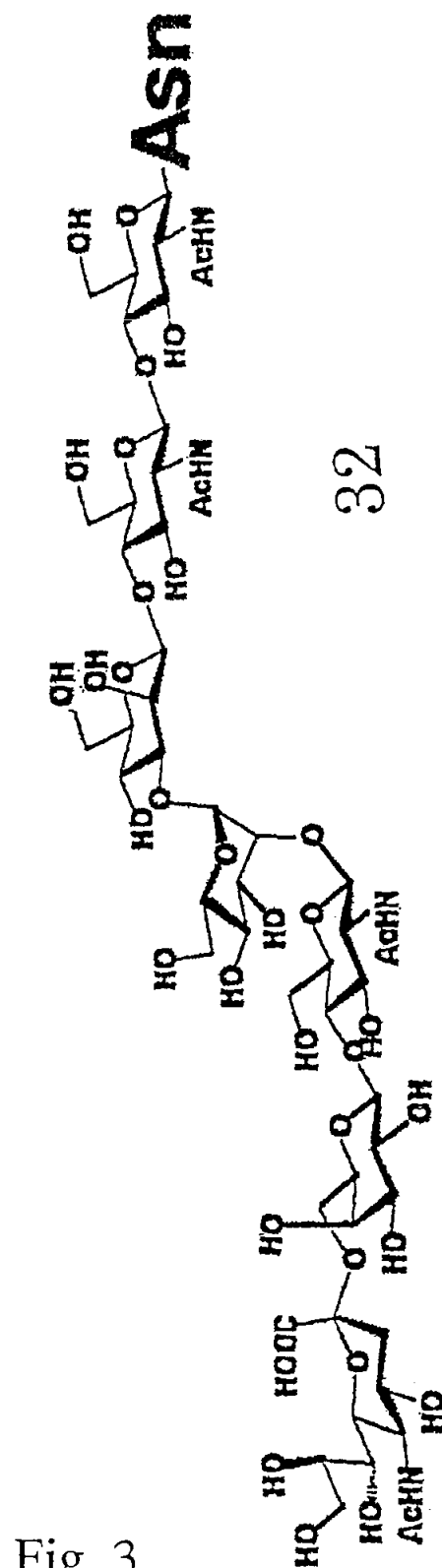
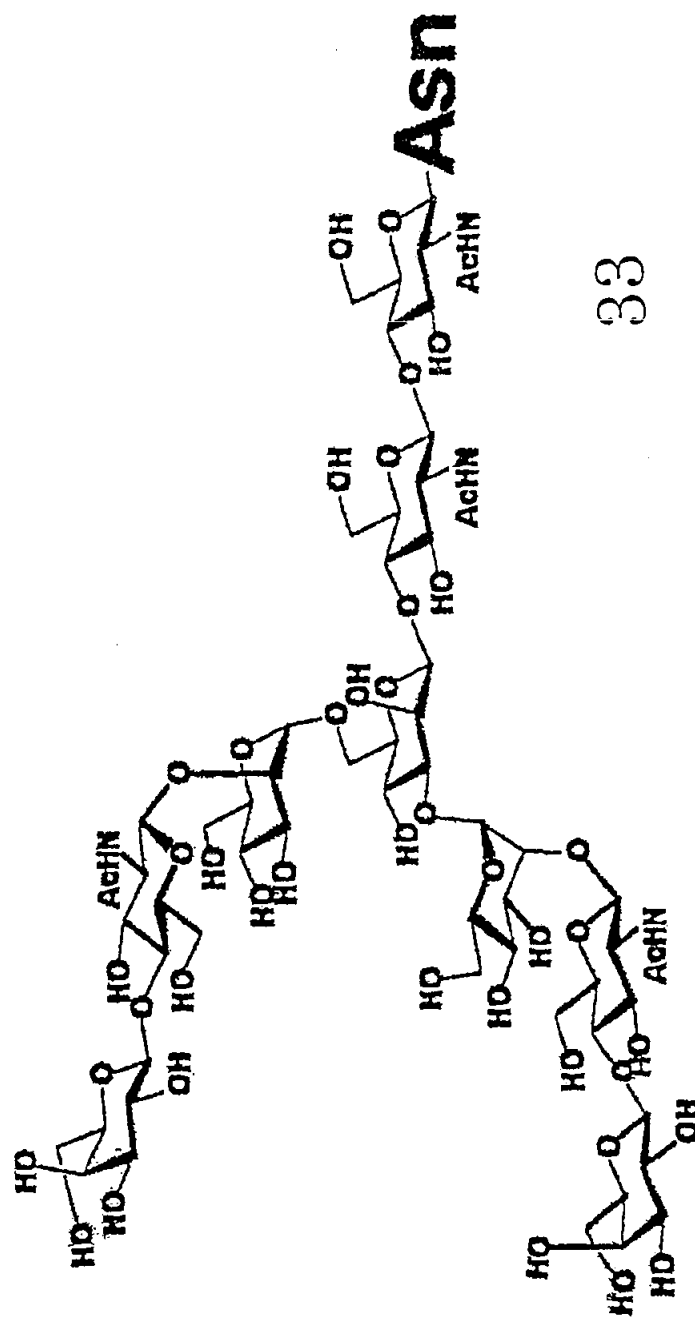
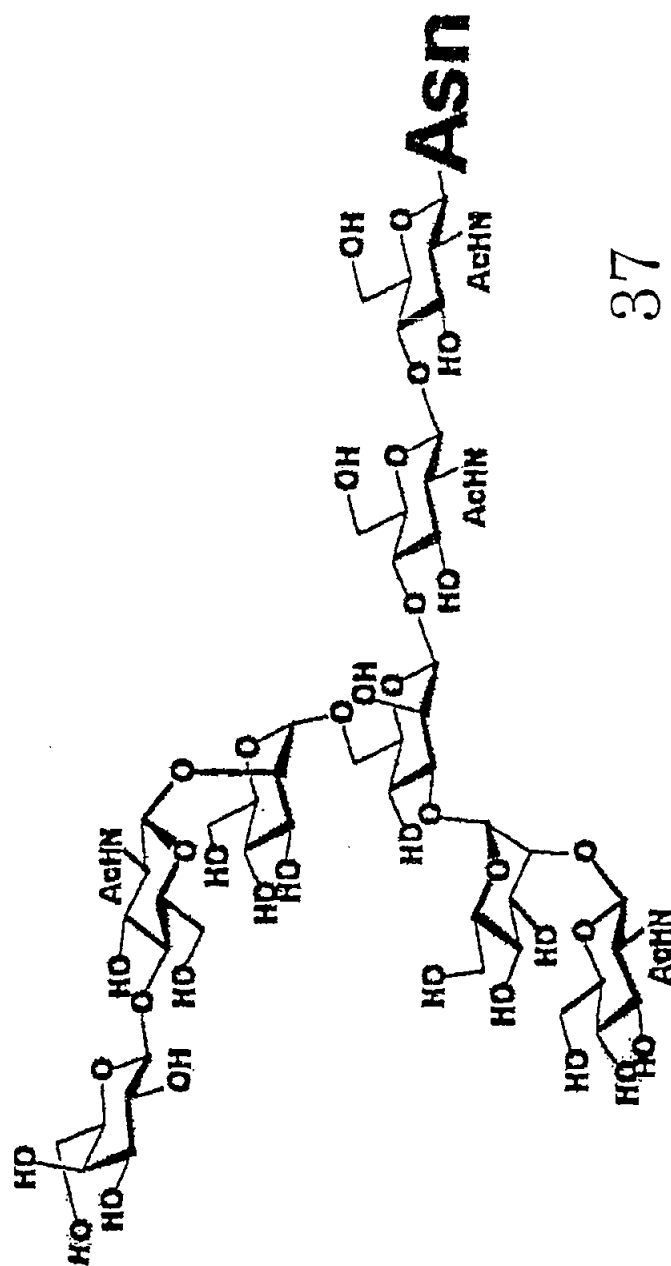


Fig. 3
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Fig. 3
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Fig. 3

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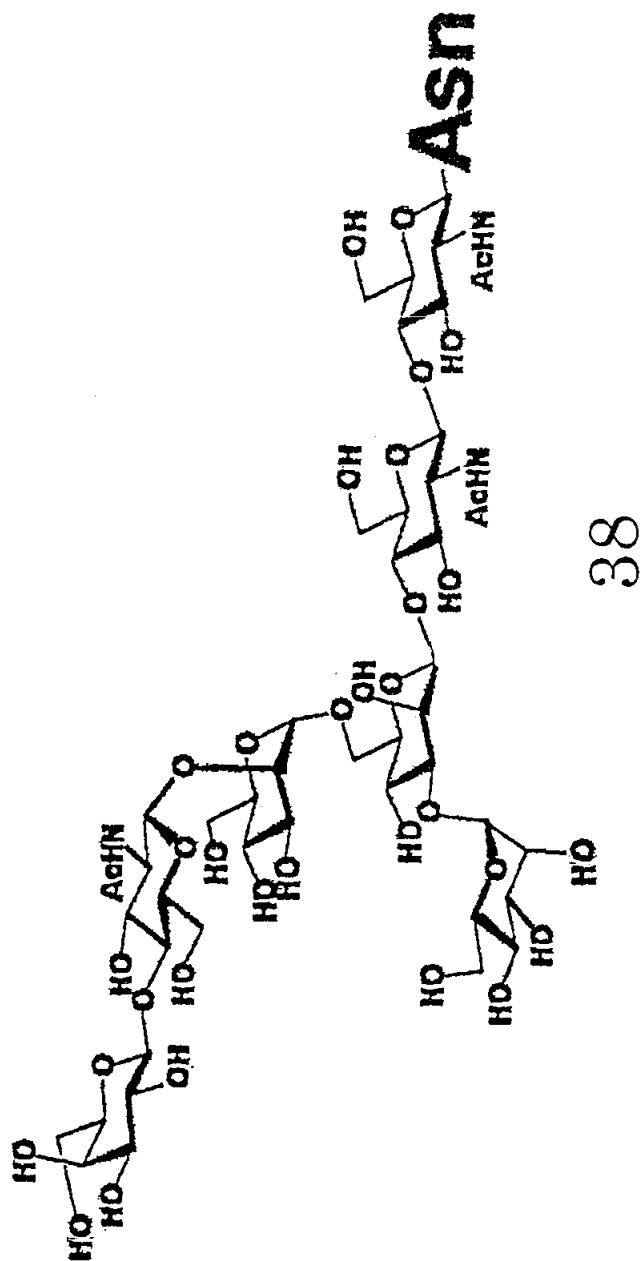
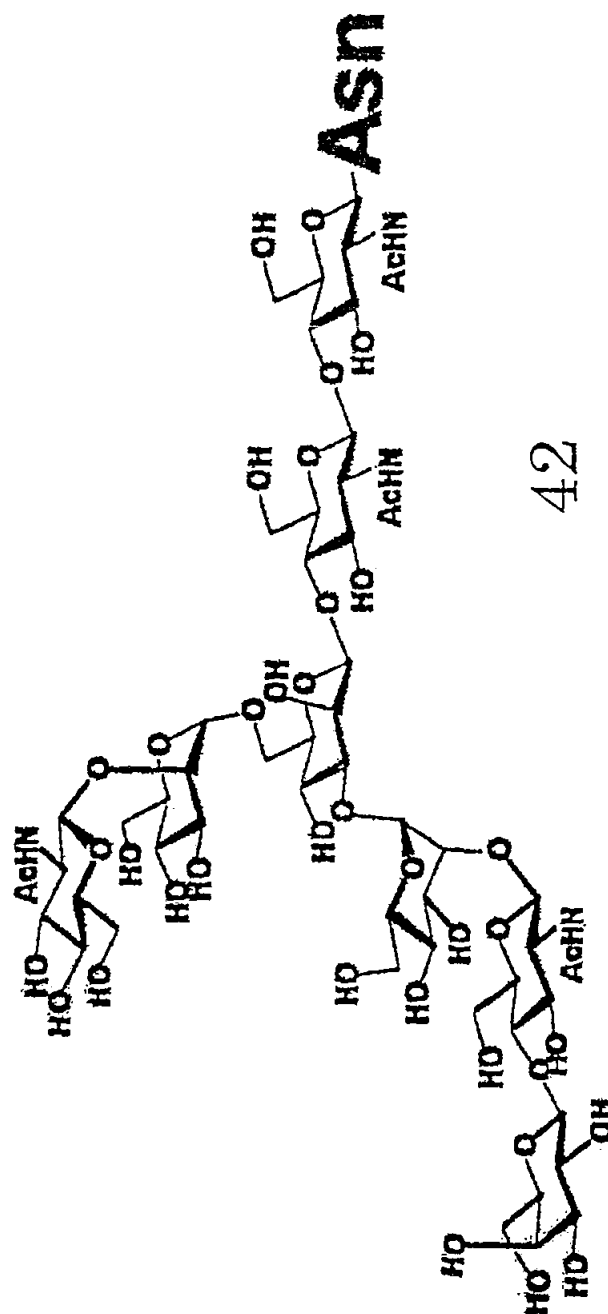


Fig. 3

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Fig. 3
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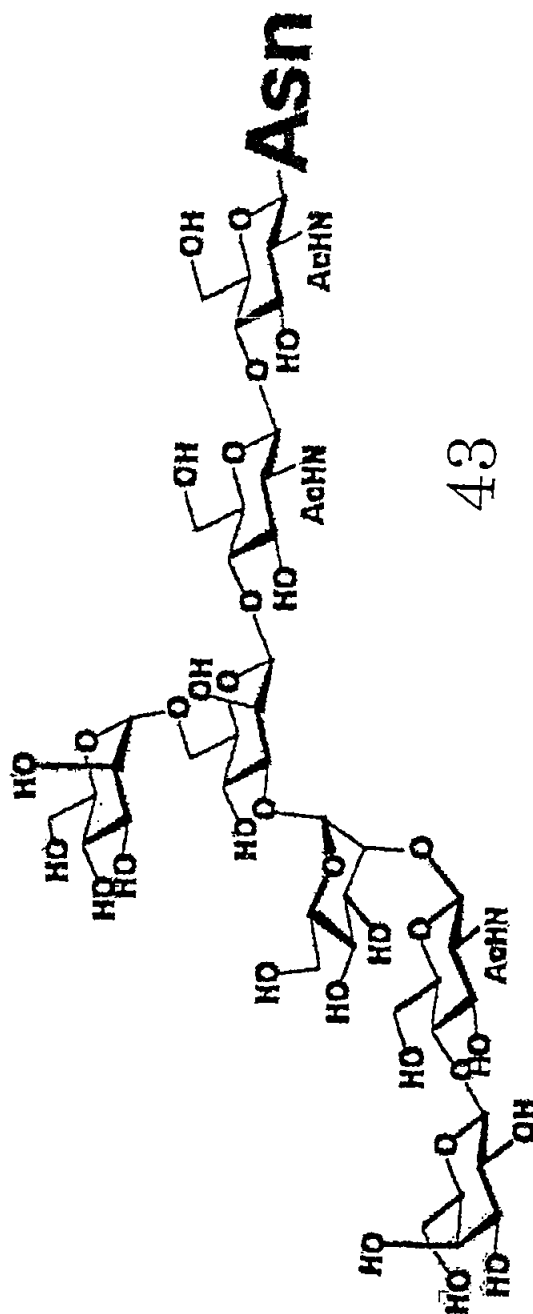
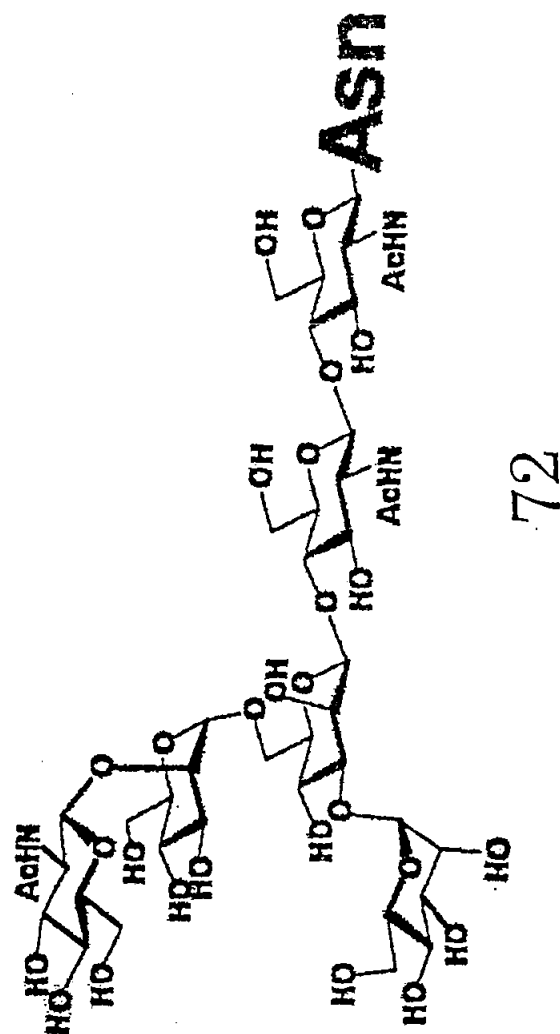
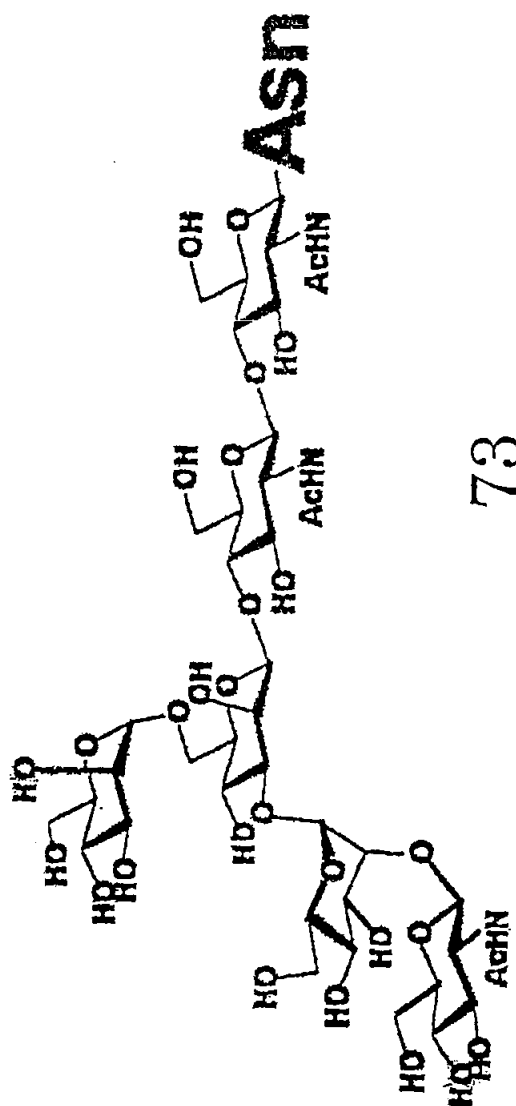


Fig. 3
3/9/12



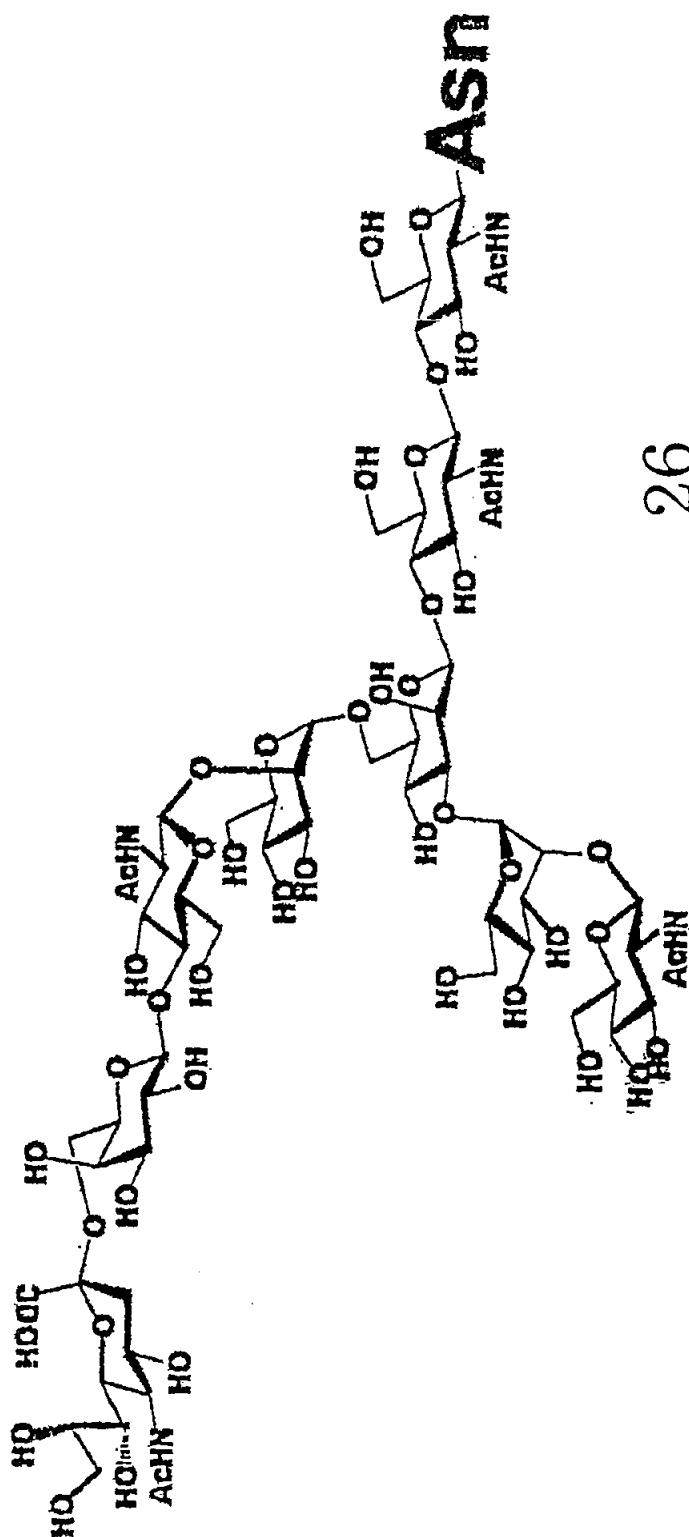
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Fig. 3
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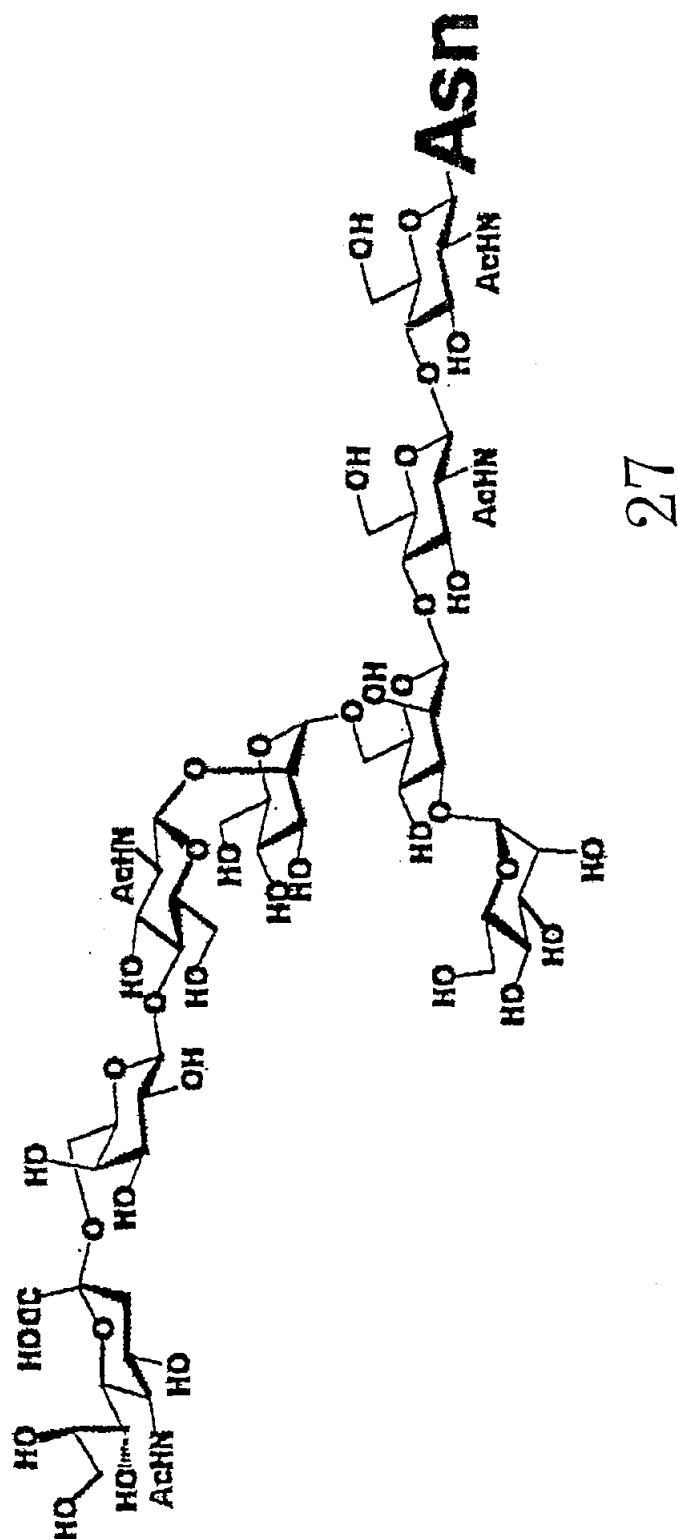
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Fig. 3
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Fig. 4
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Fig. 4
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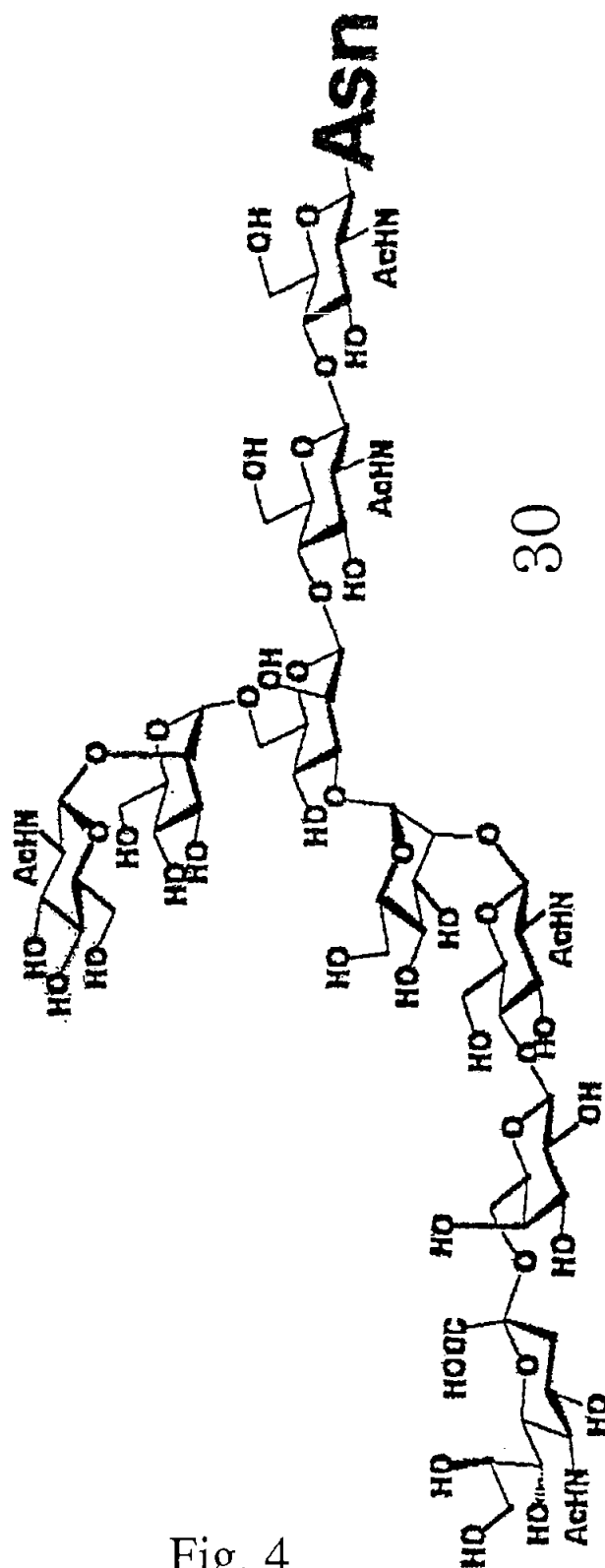


Fig. 4
4/2/12

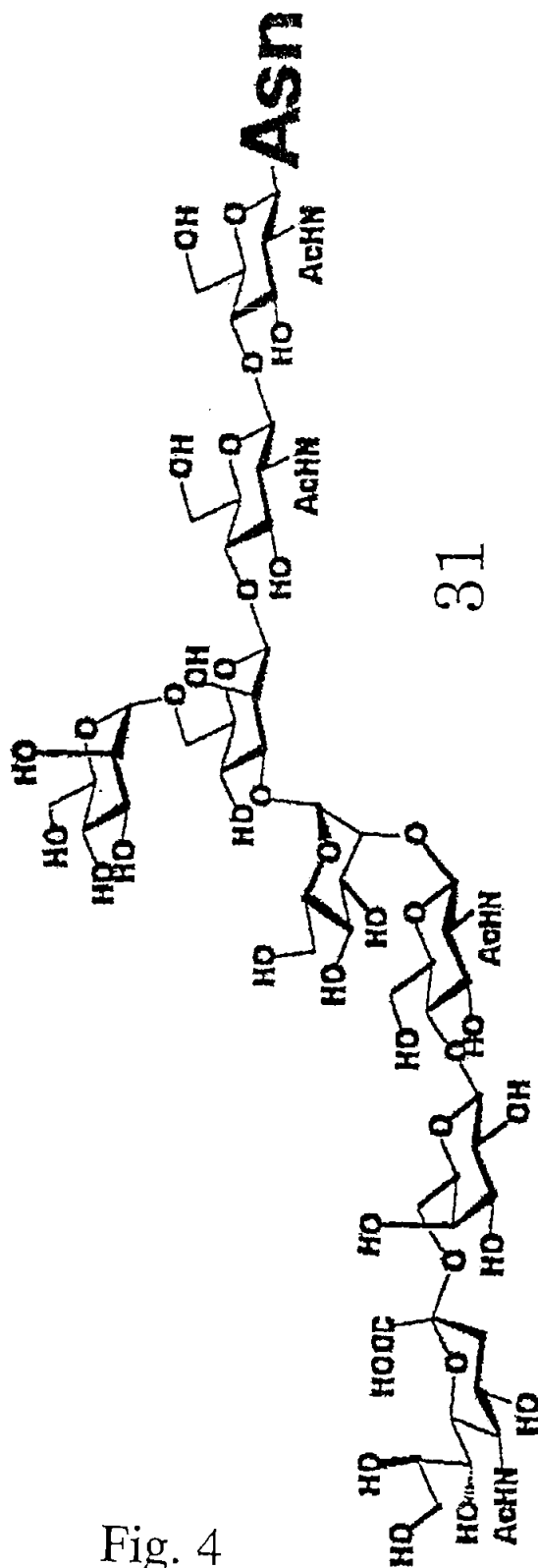
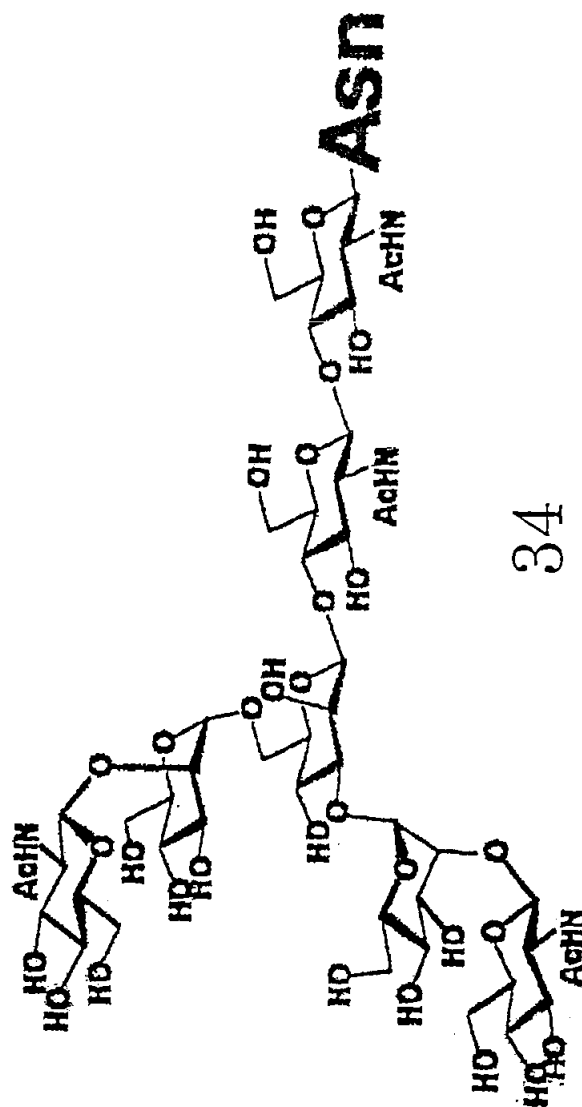


Fig. 4
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Fig. 4
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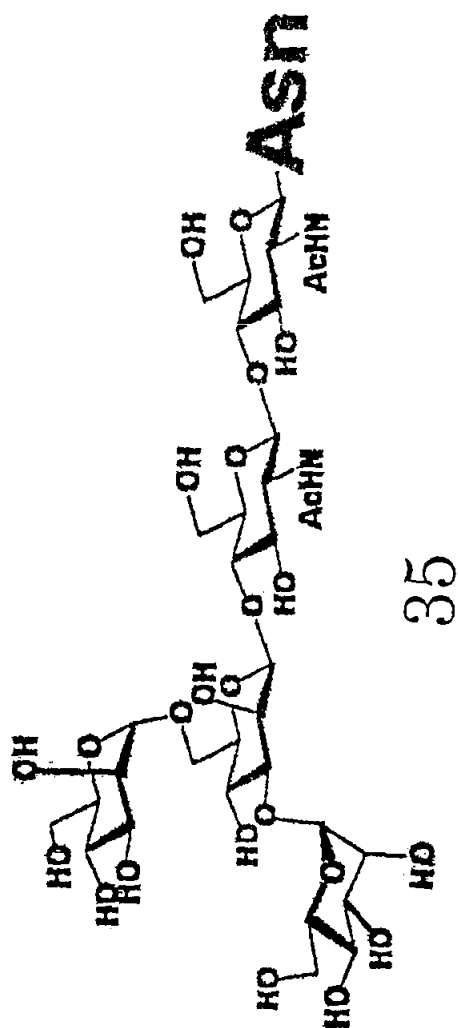
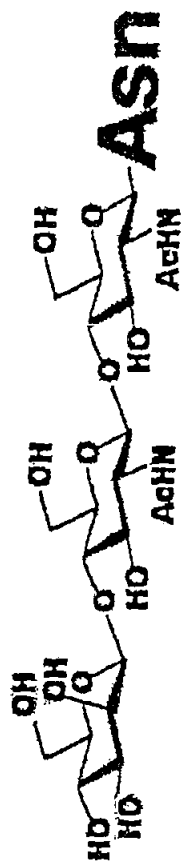
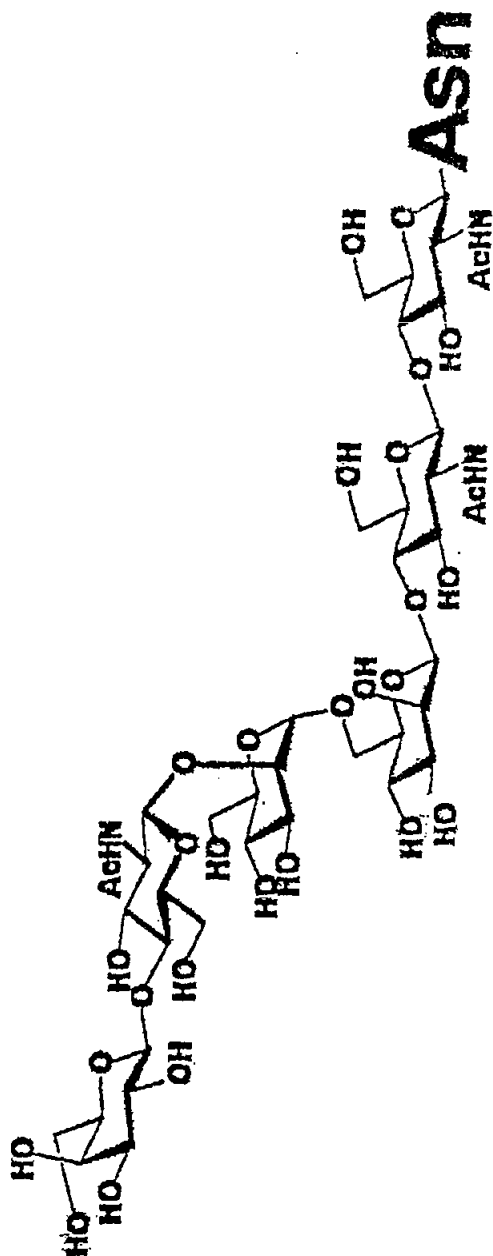


Fig. 4
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Fig. 4
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Fig. 4

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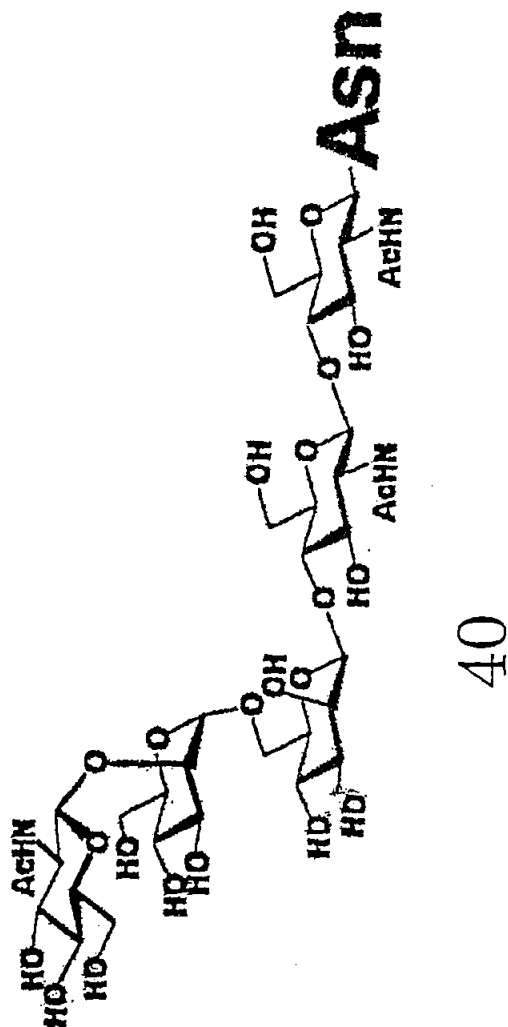
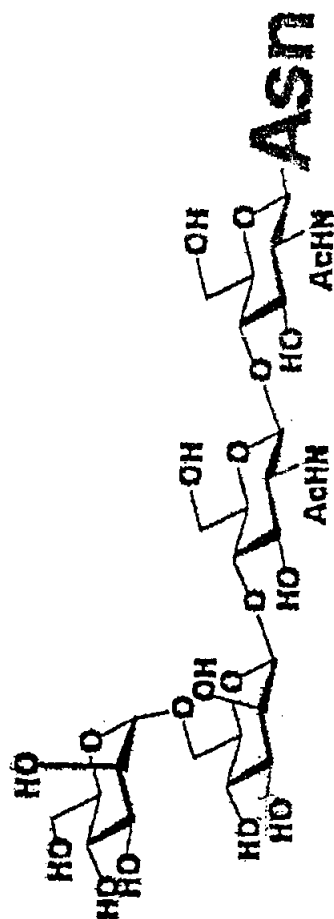


Fig. 4
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Fig. 4

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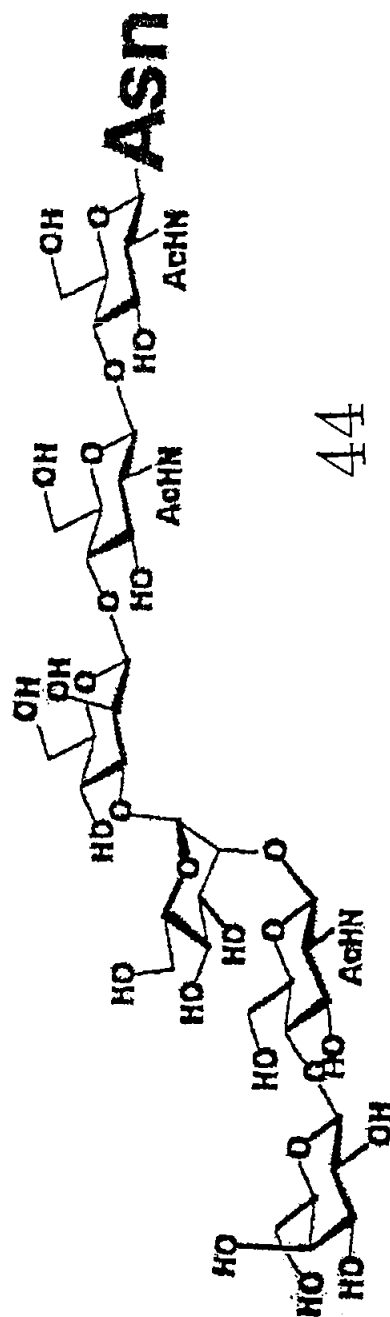
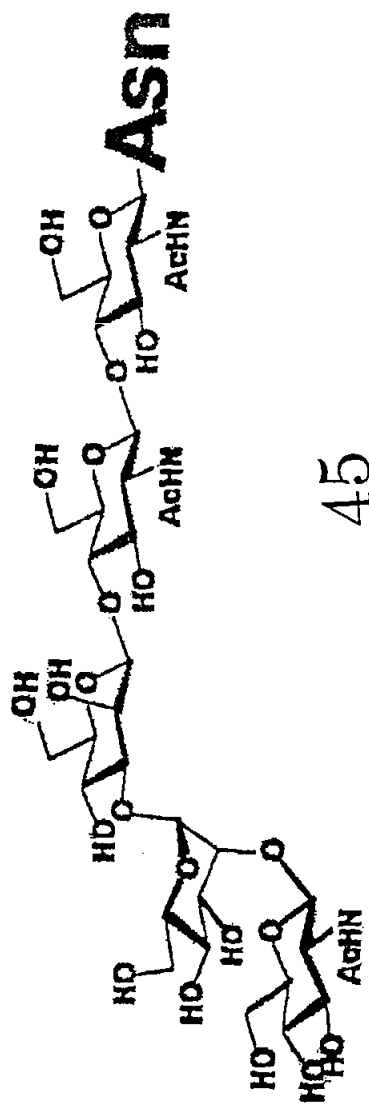


Fig. 4
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Fig. 4
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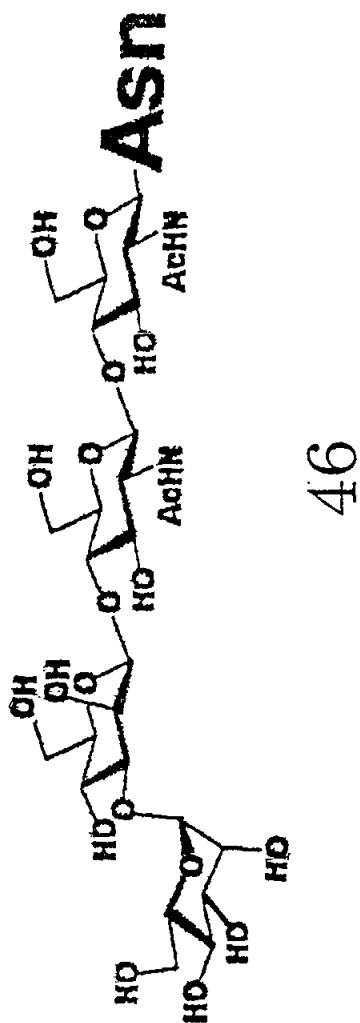
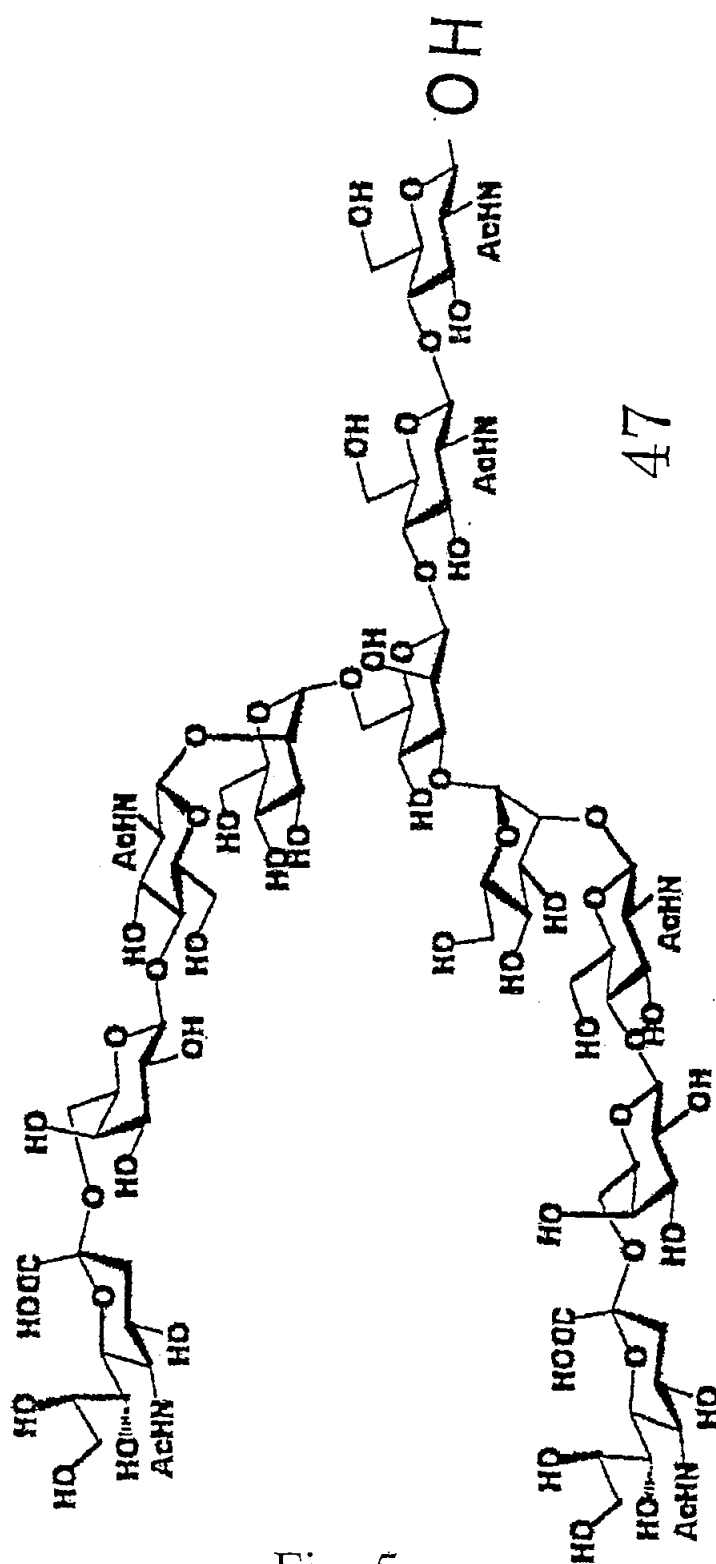
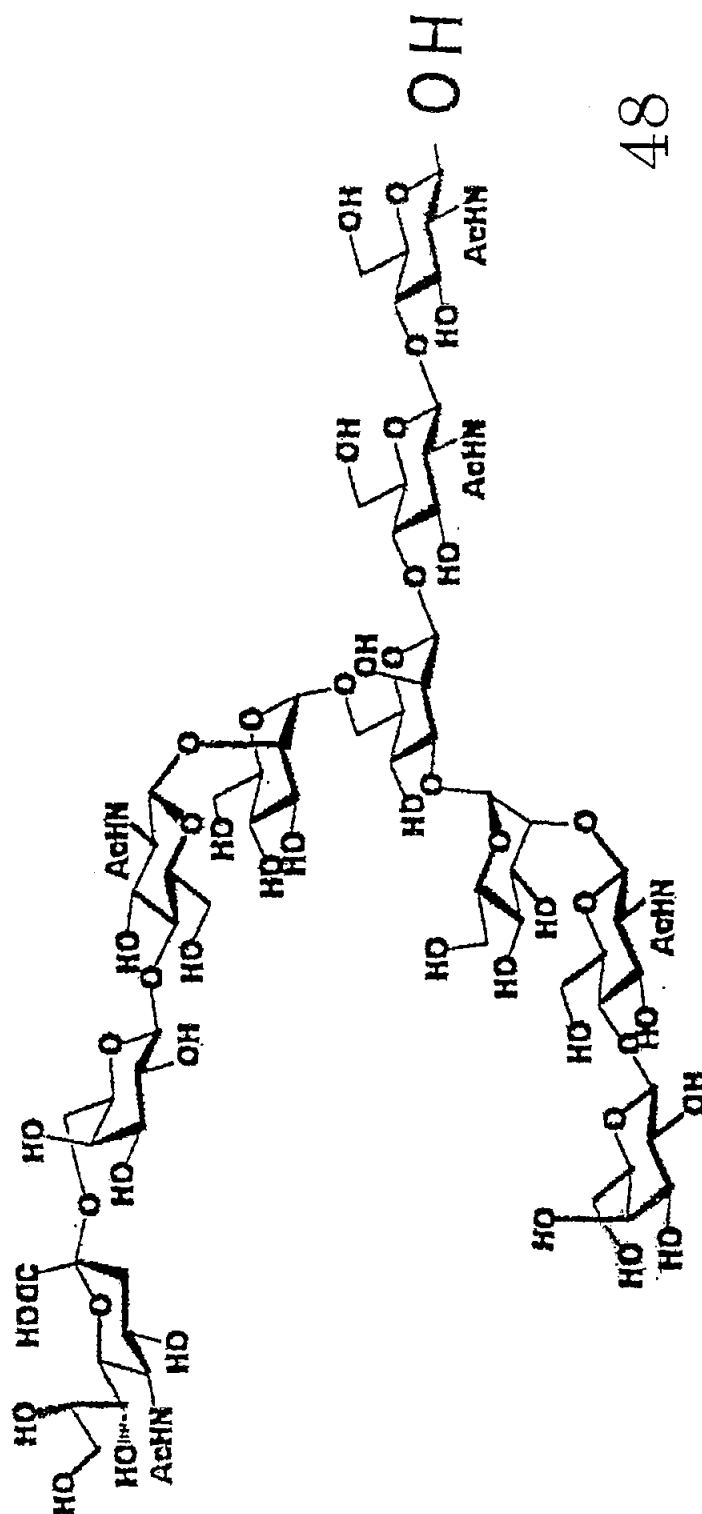


Fig. 4
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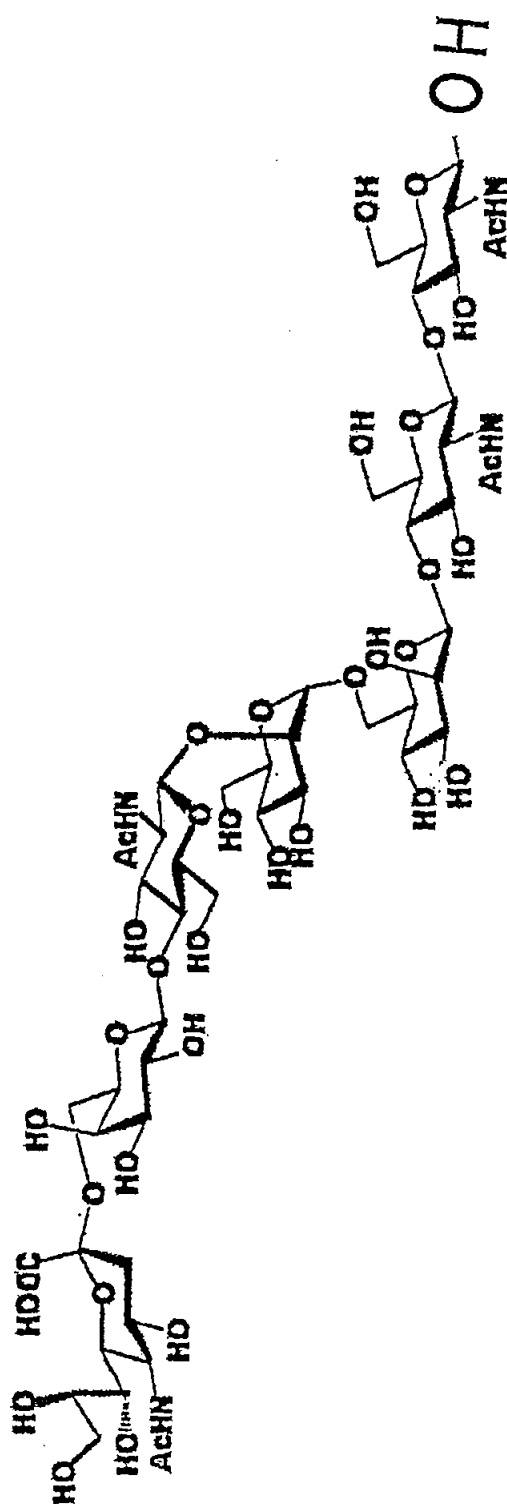
47

Fig. 5
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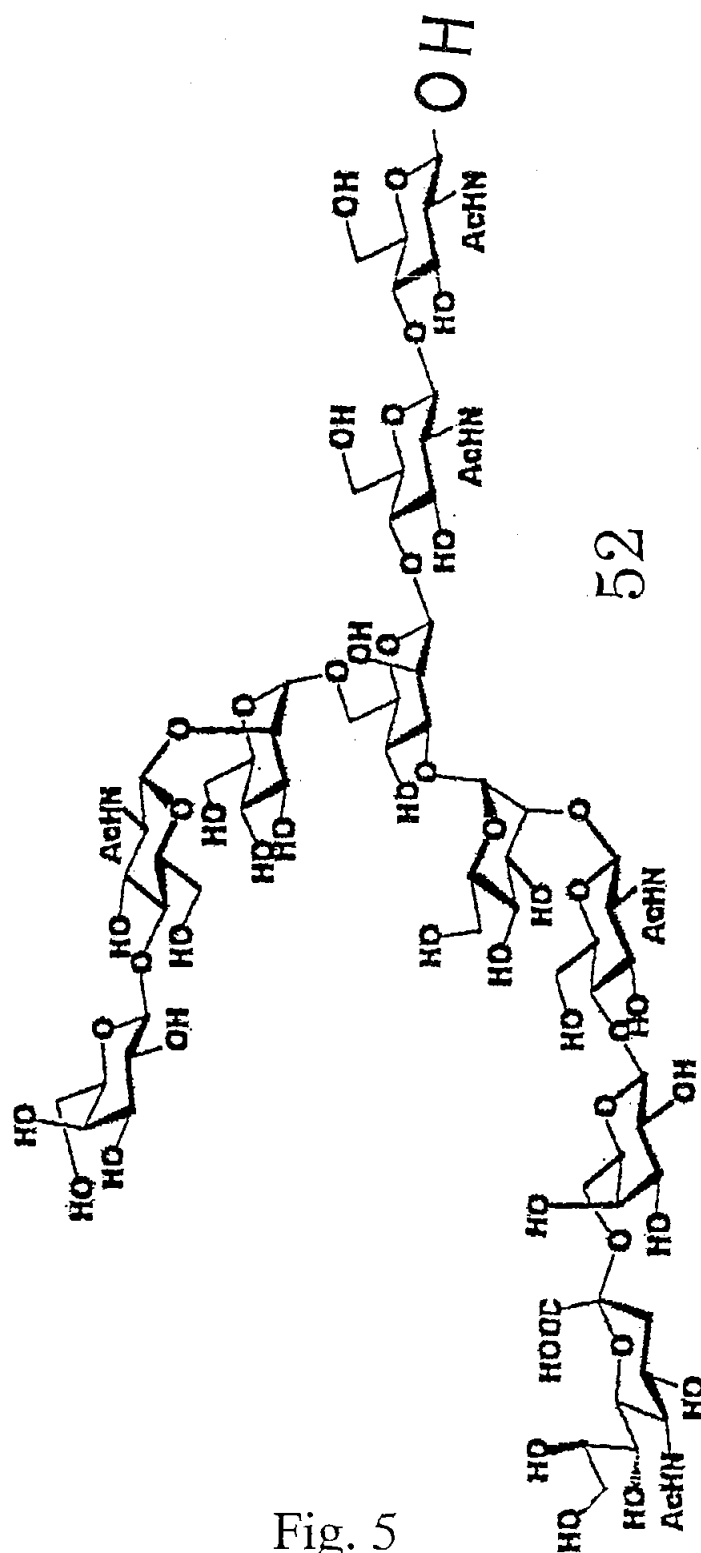
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Fig. 5
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Fig. 5
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Fig. 5
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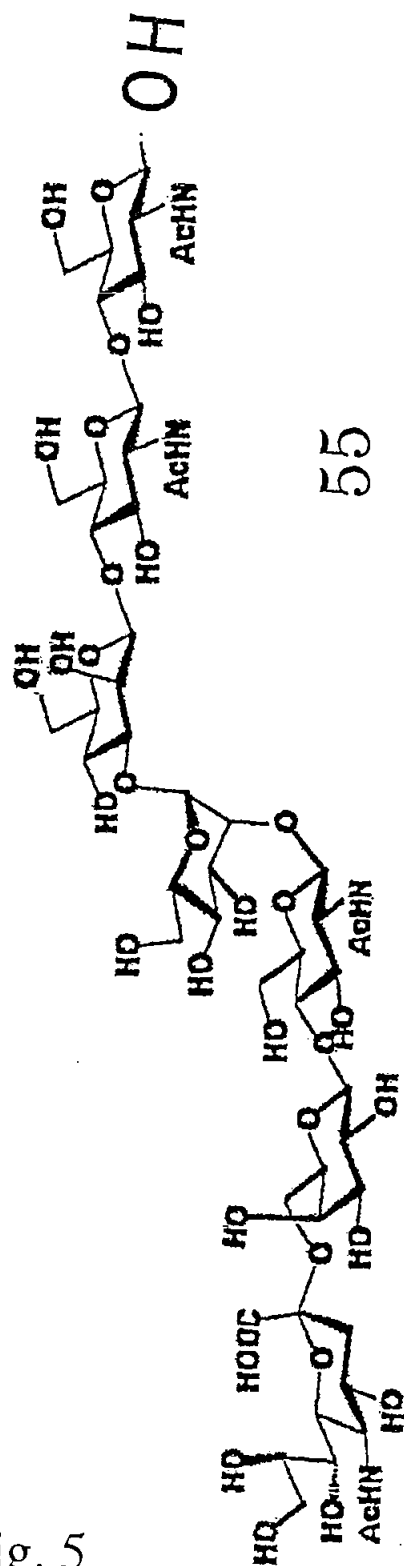
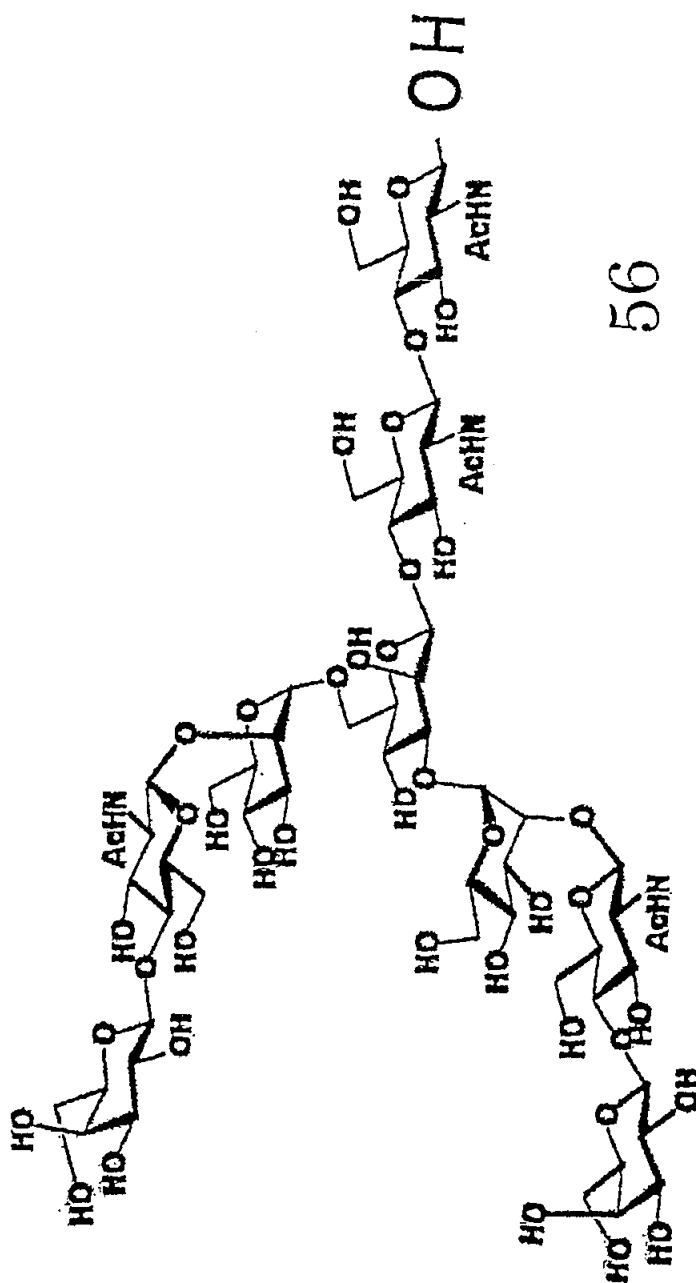
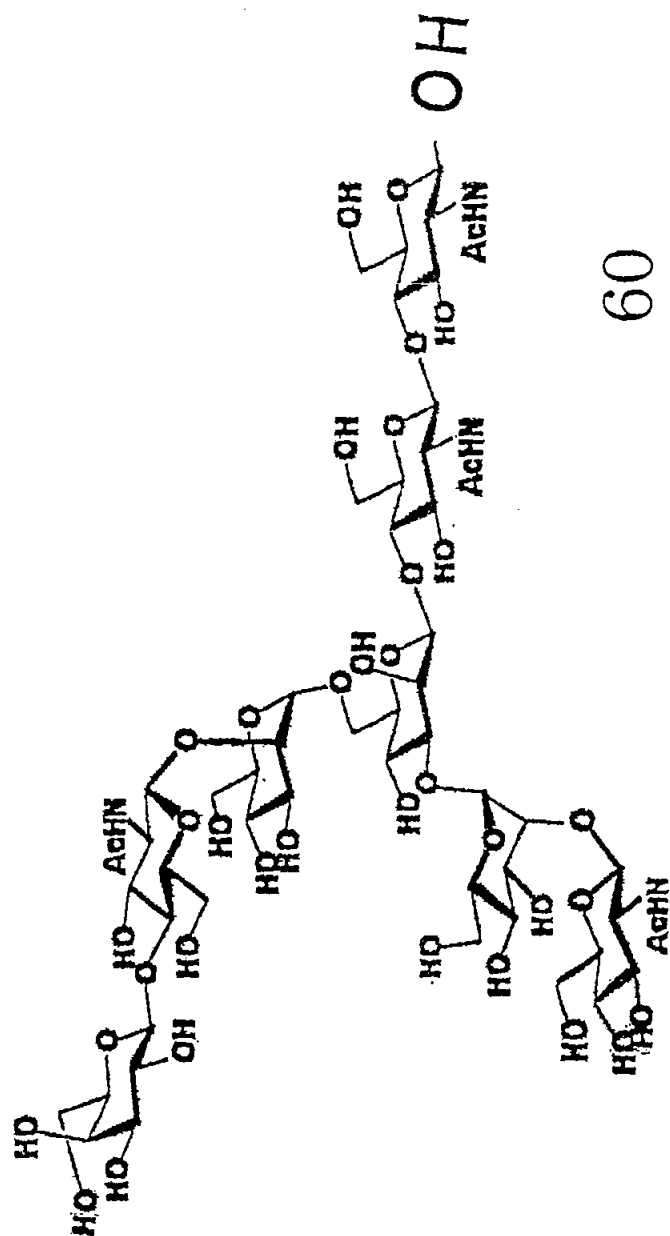


Fig. 5
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Fig. 5
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Fig. 5
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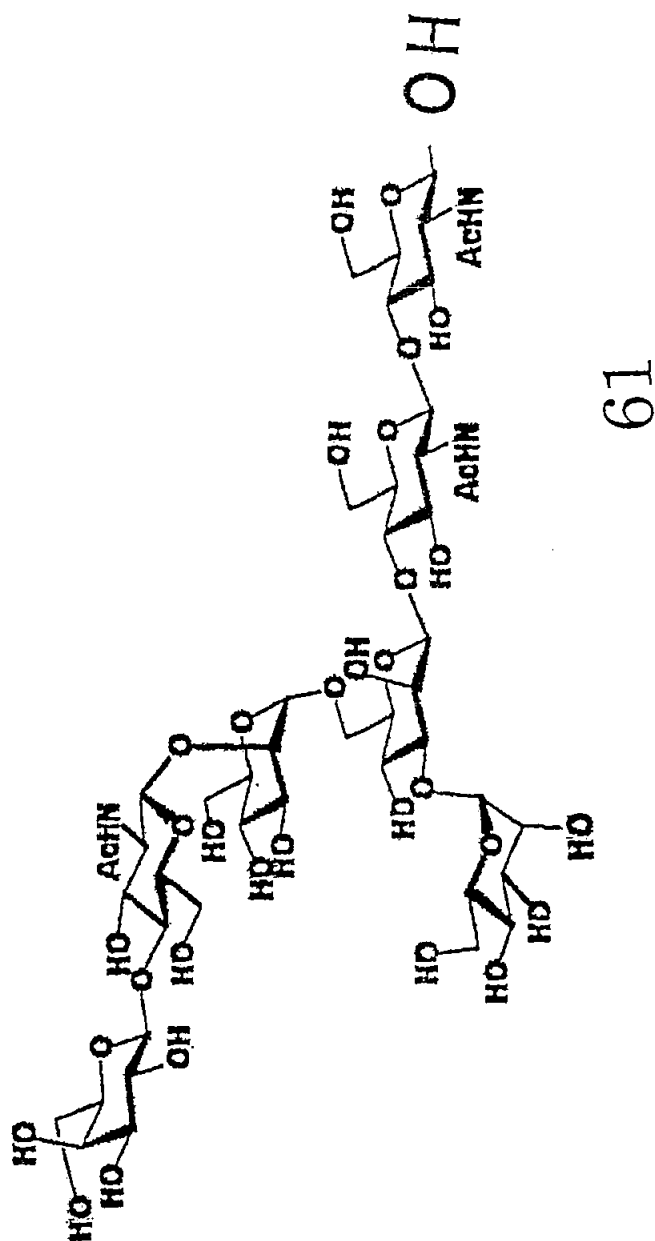


Fig. 5
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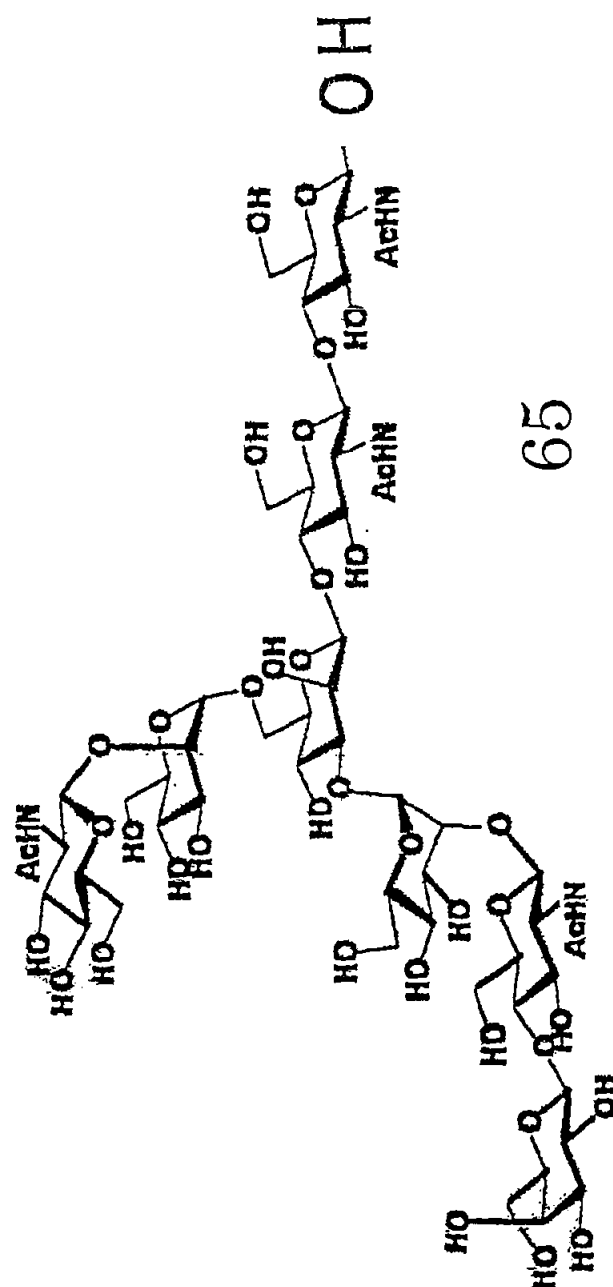


Fig. 5
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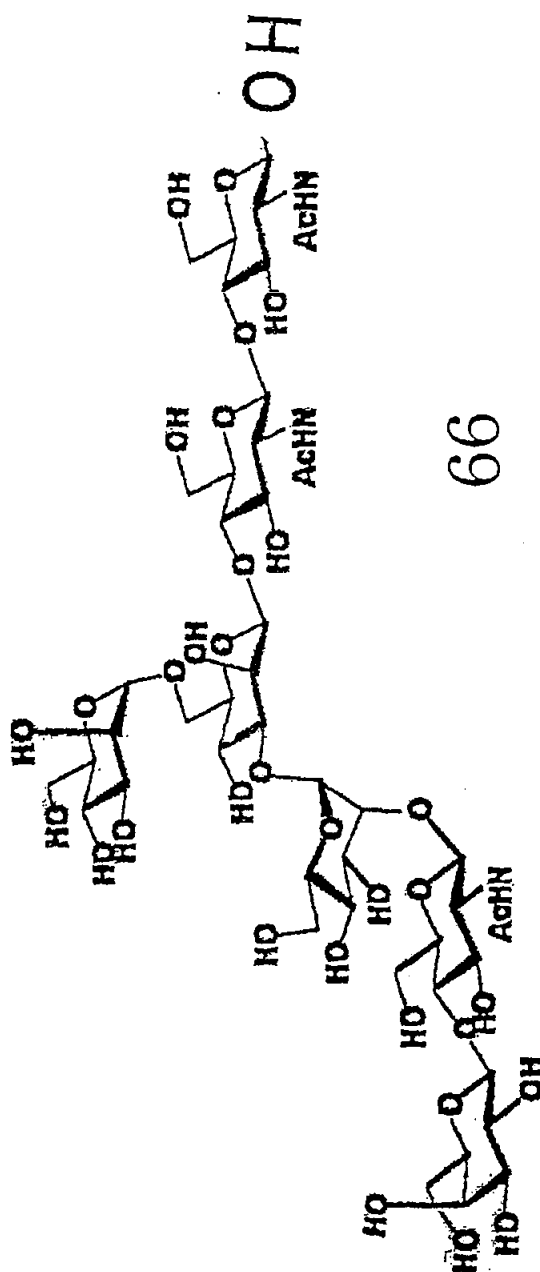
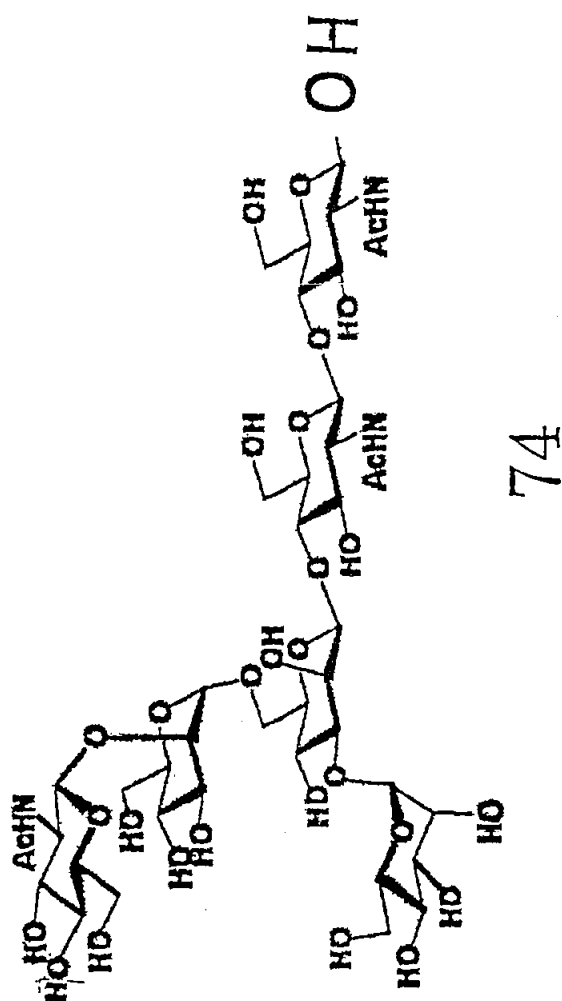


Fig. 5
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Fig. 5
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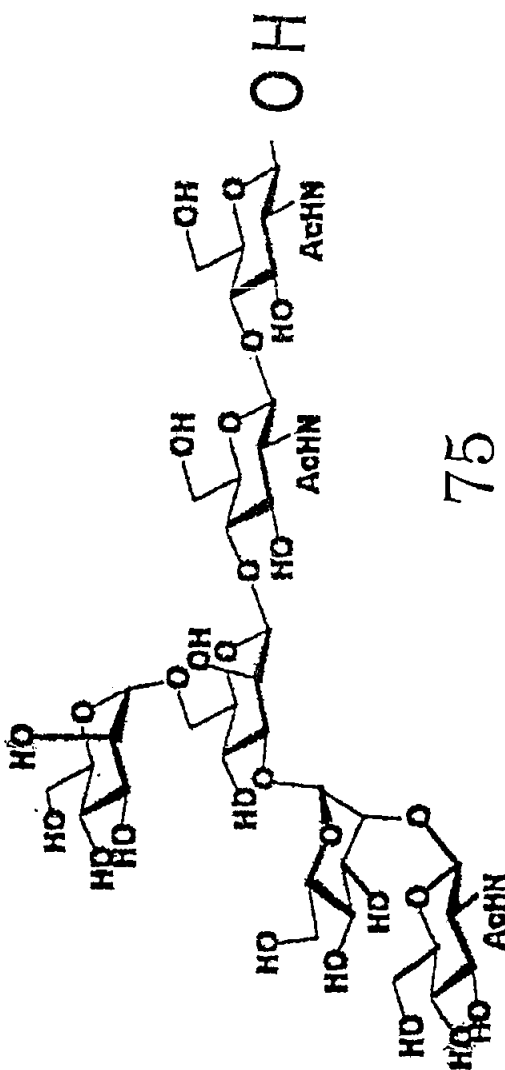
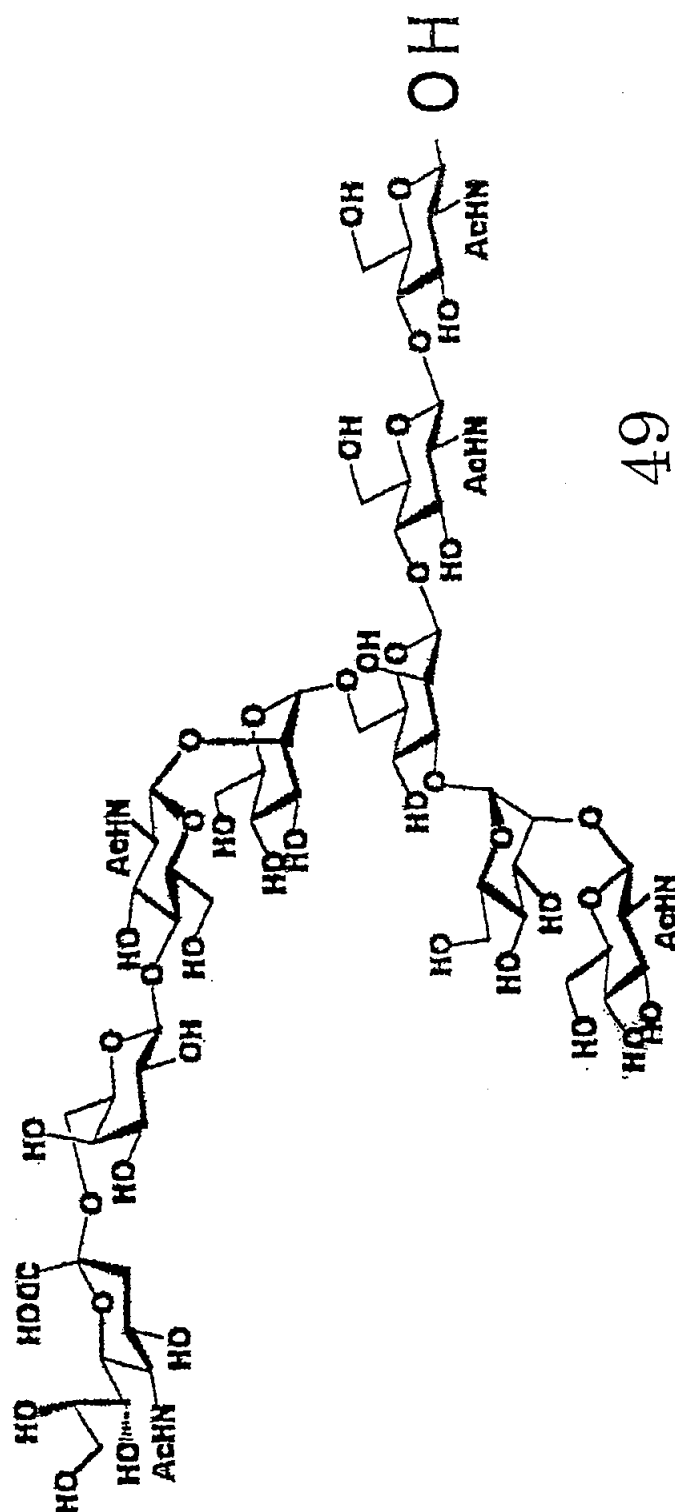


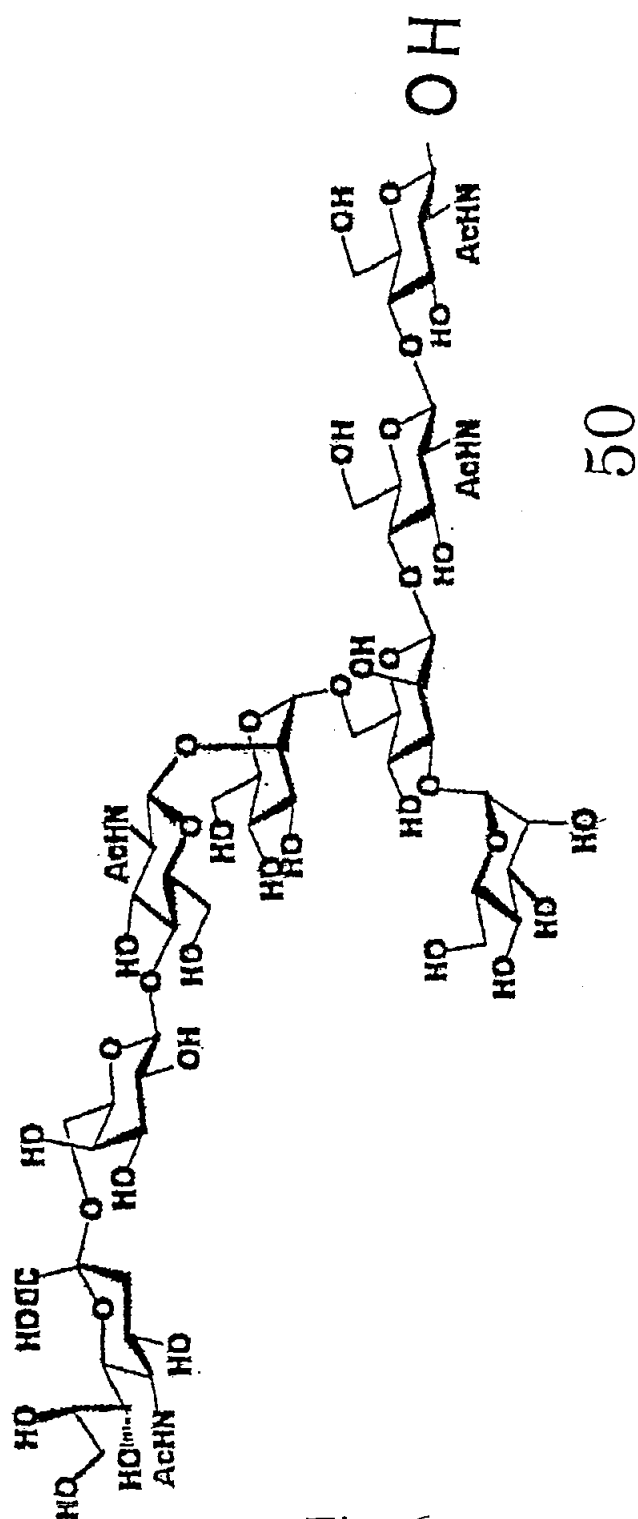
Fig. 5
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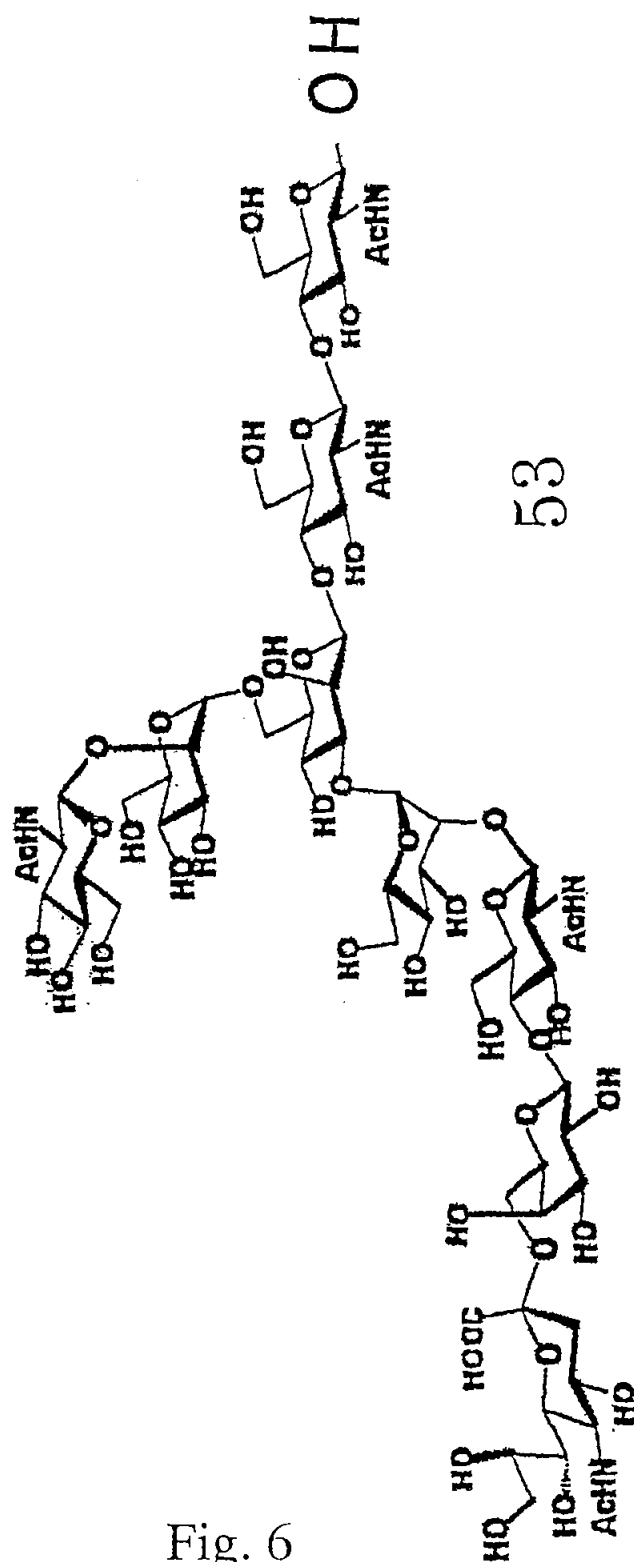
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Fig. 6
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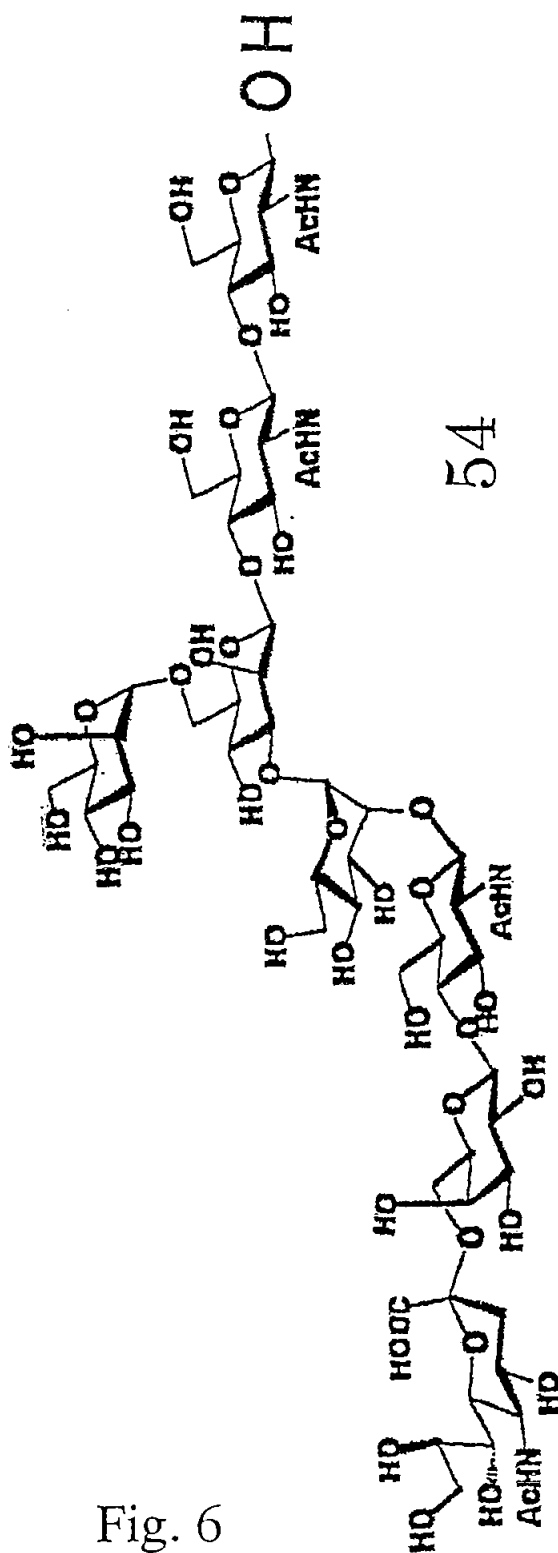
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Fig. 6
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Fig. 6
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Fig. 6
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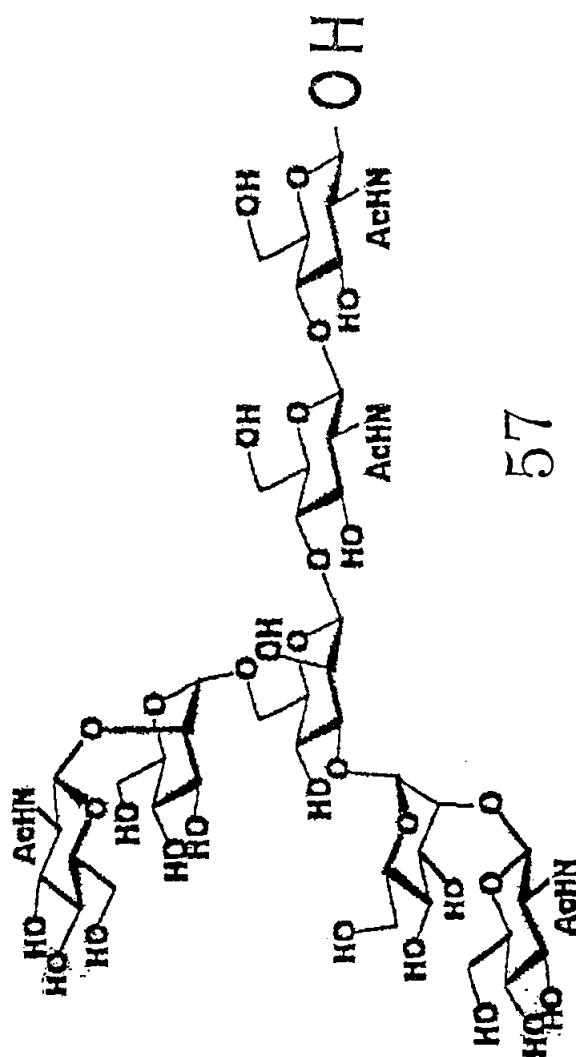
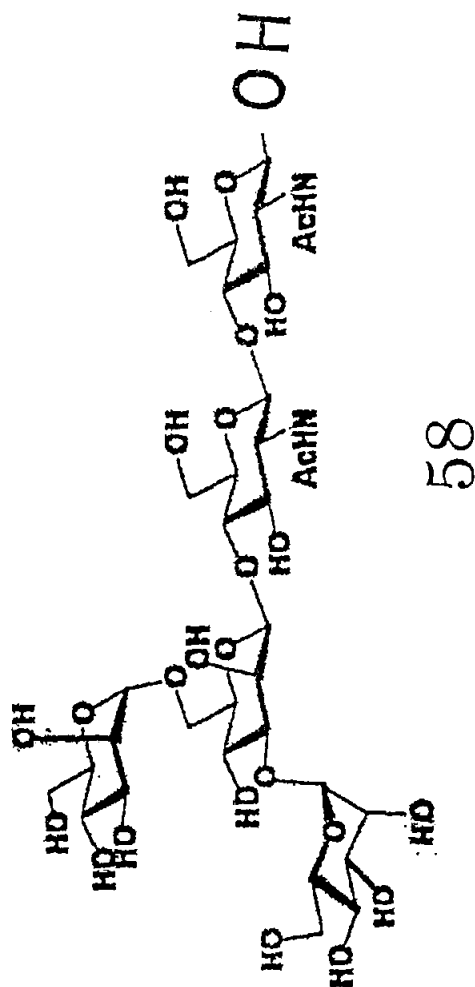
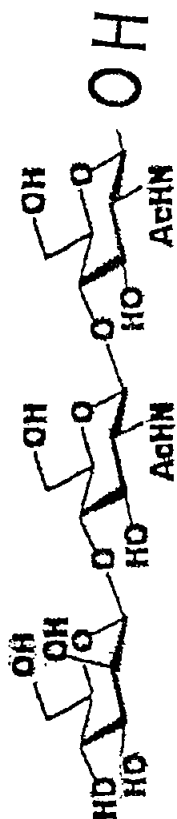


Fig. 6
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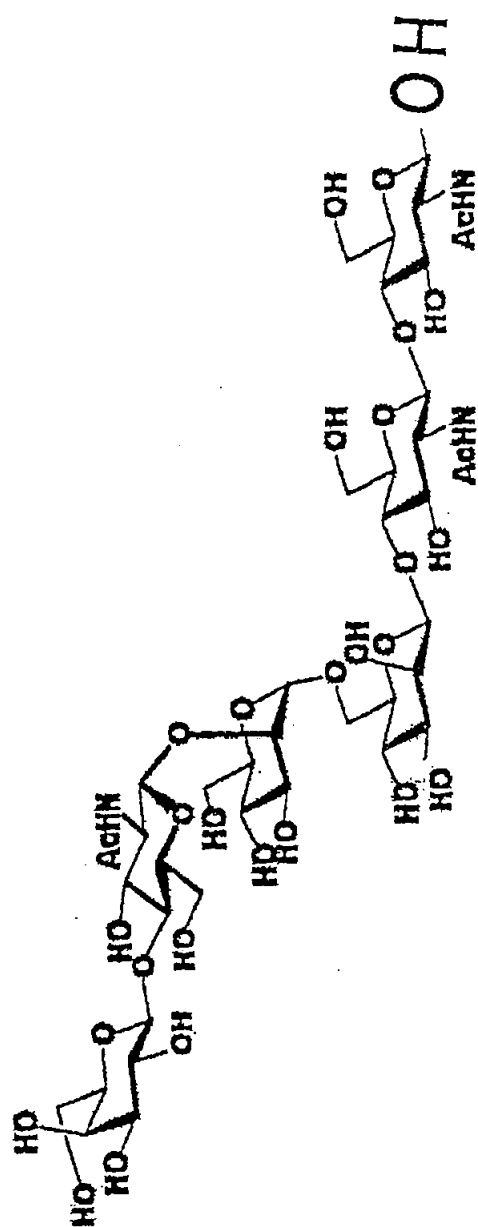
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Fig. 6
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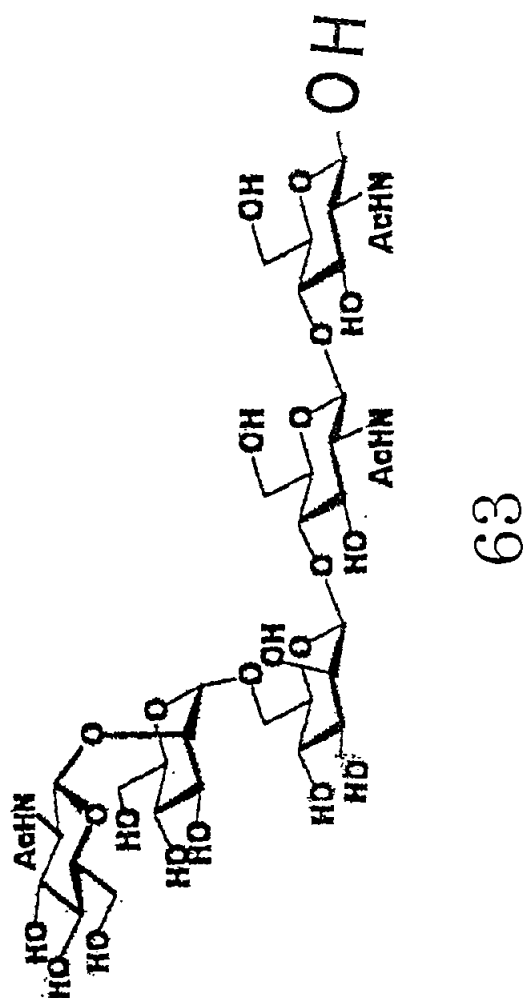
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Fig. 6
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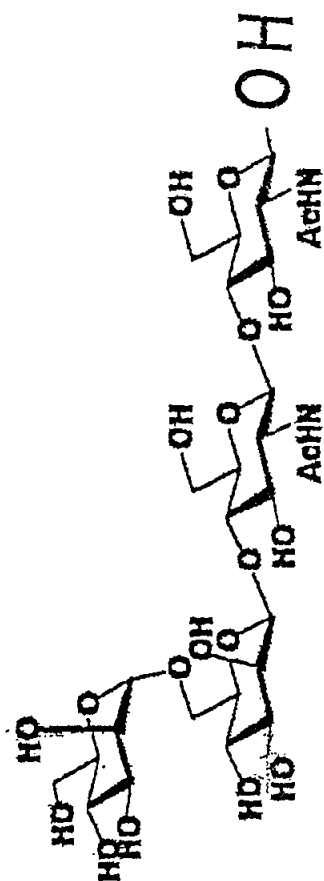
Fig. 6
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Fig. 6

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Fig. 6
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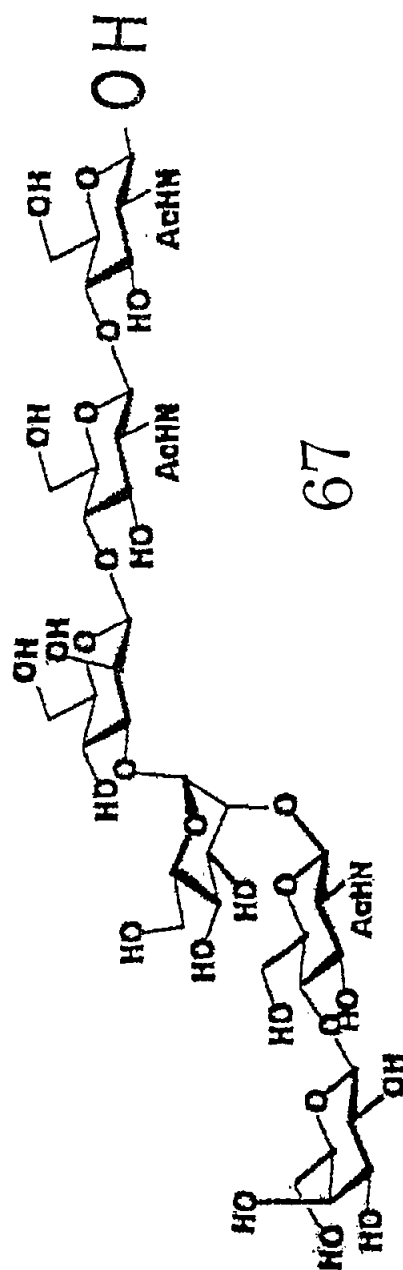


Fig. 6
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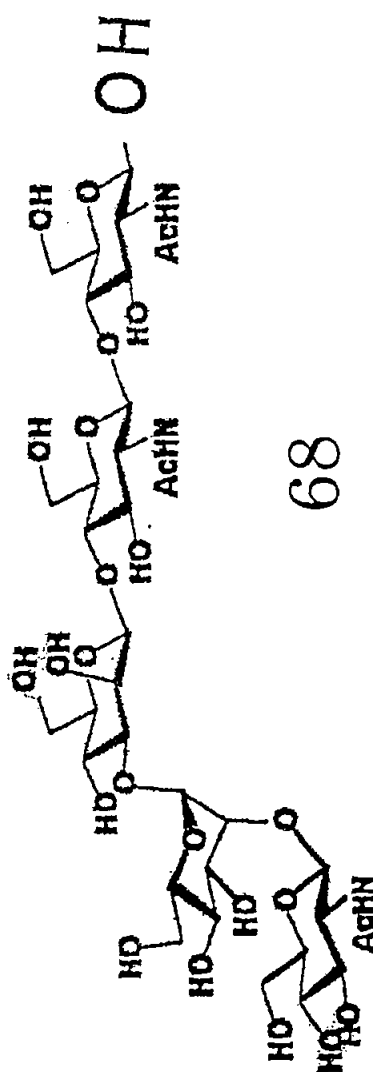


Fig. 6
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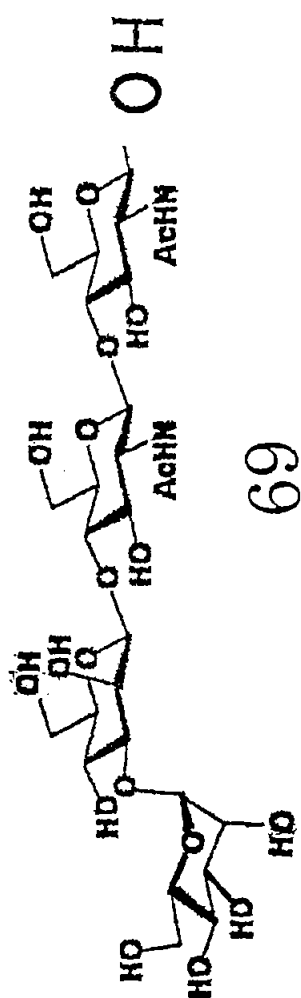
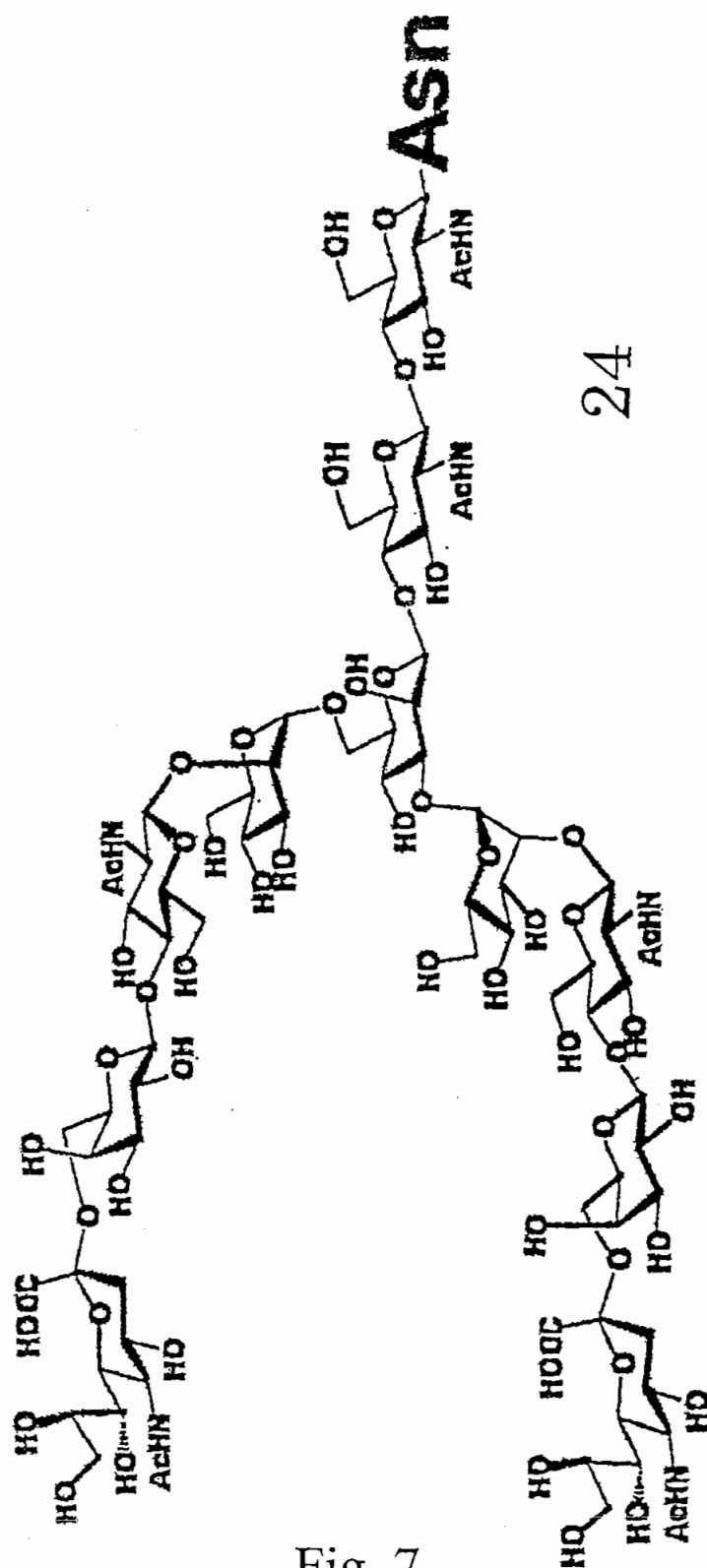


Fig. 6

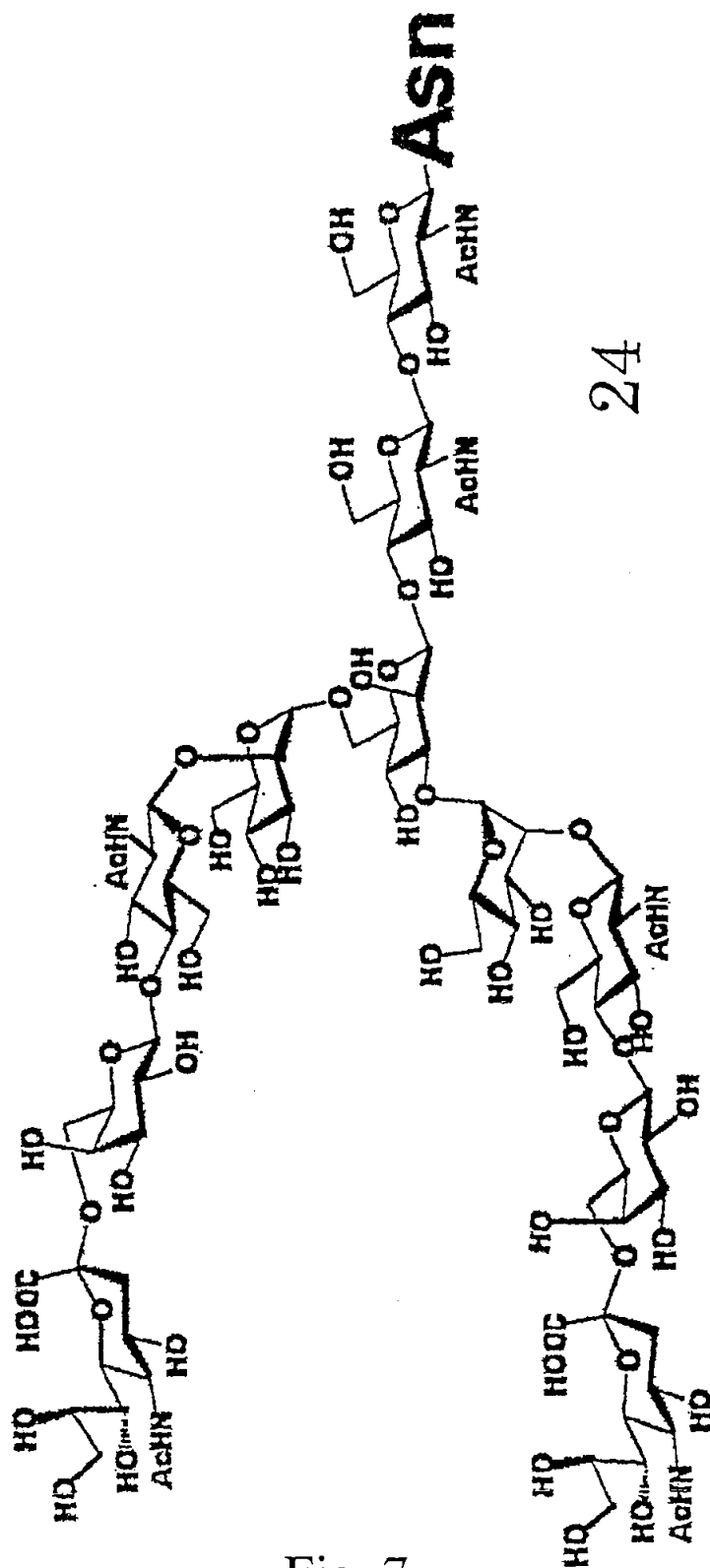
6/12/12



Acid Hydrolysis

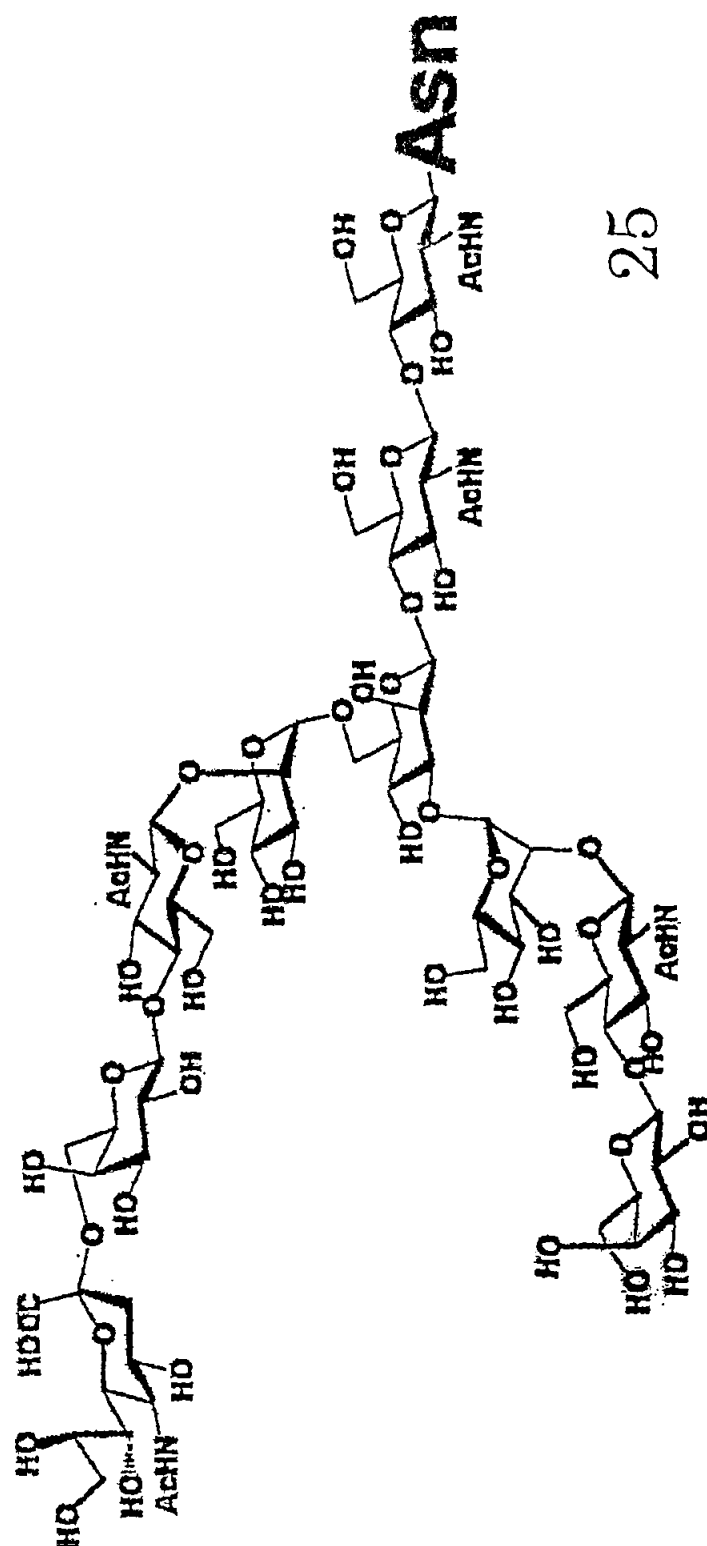


Fig. 7
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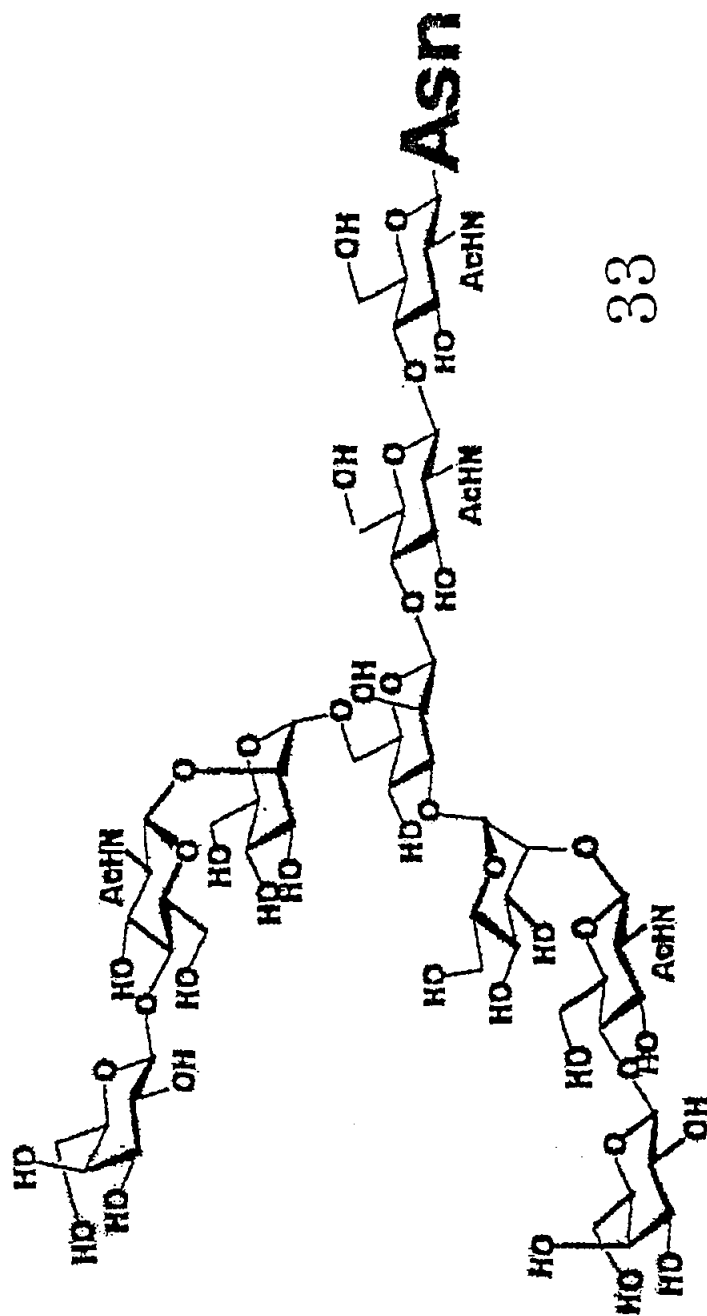
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Fig. 7
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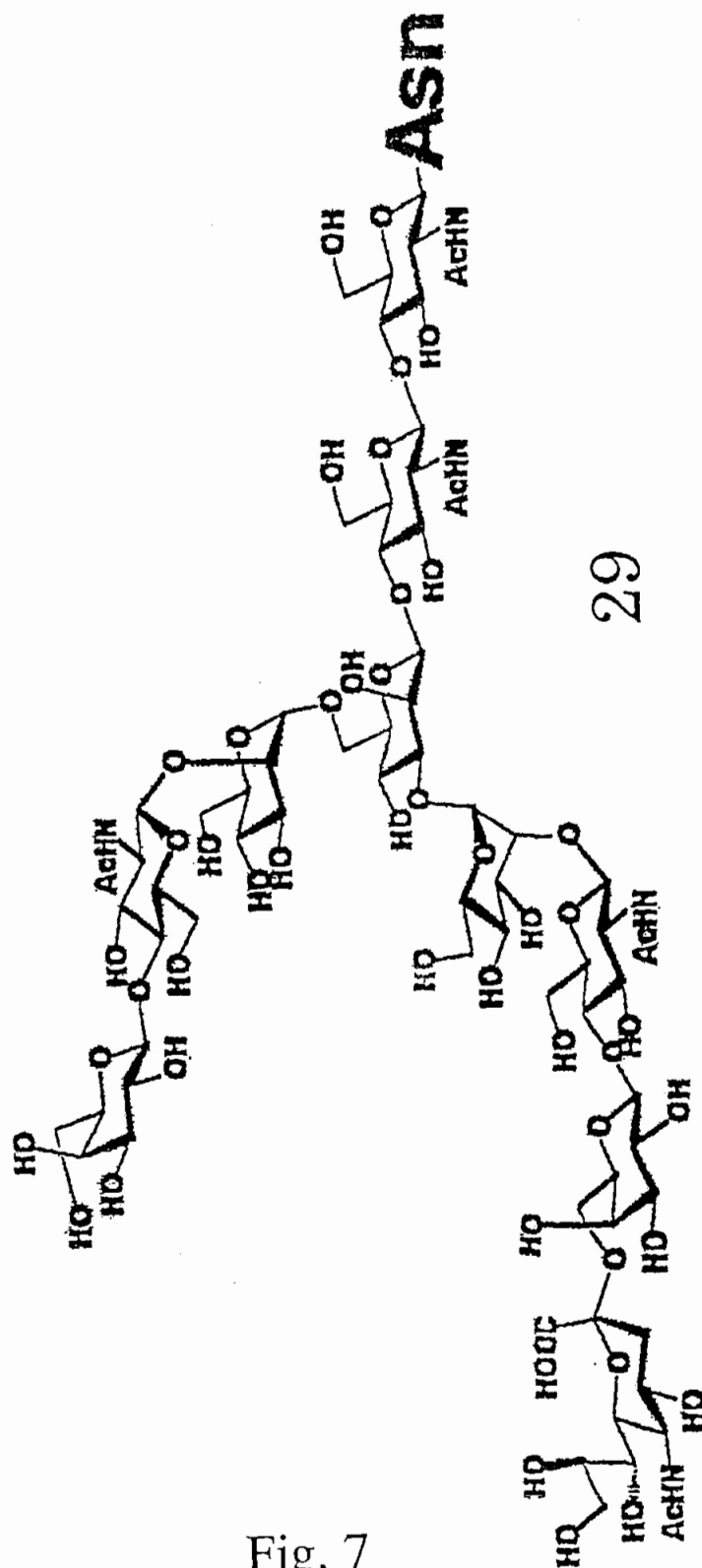
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Fig. 7
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Fig. 7
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Binding Fmoc group

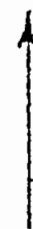
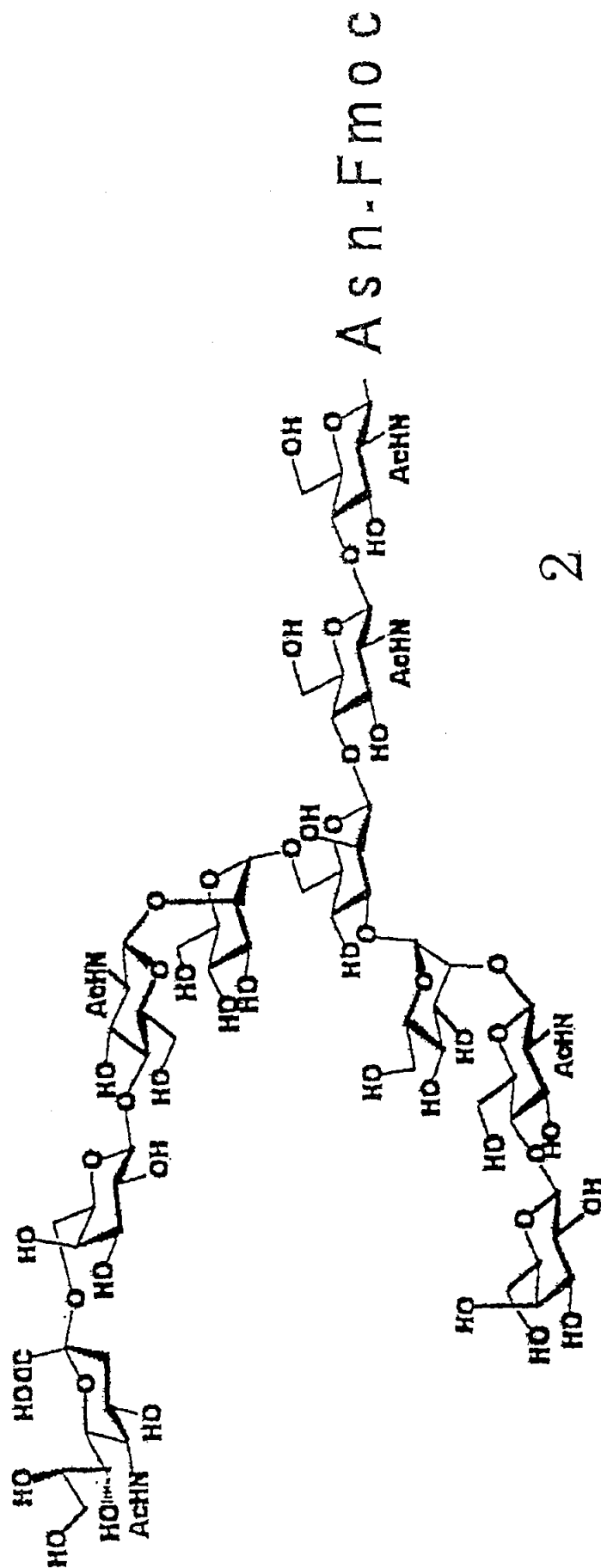


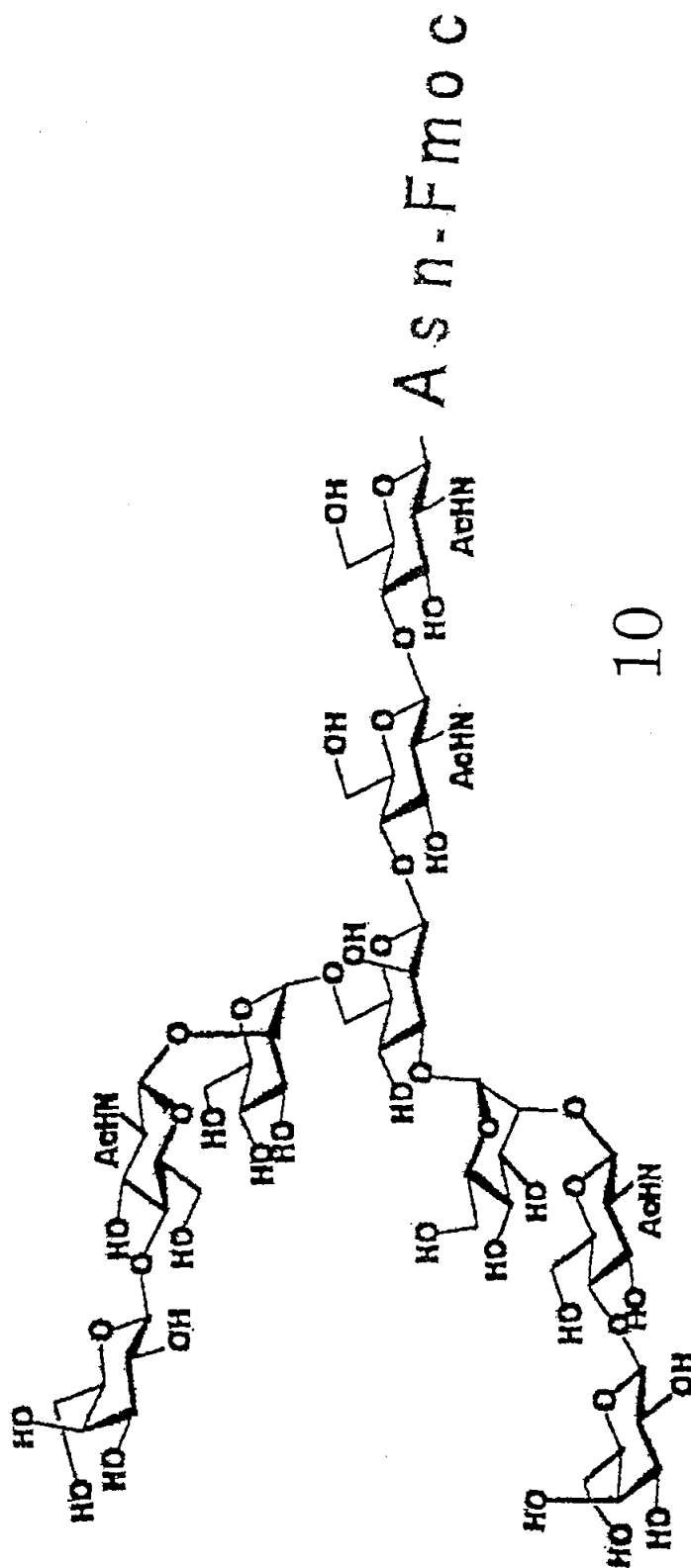
Fig. 7
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2

Fig. 7
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Asn-Fmoc



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Fig. 7

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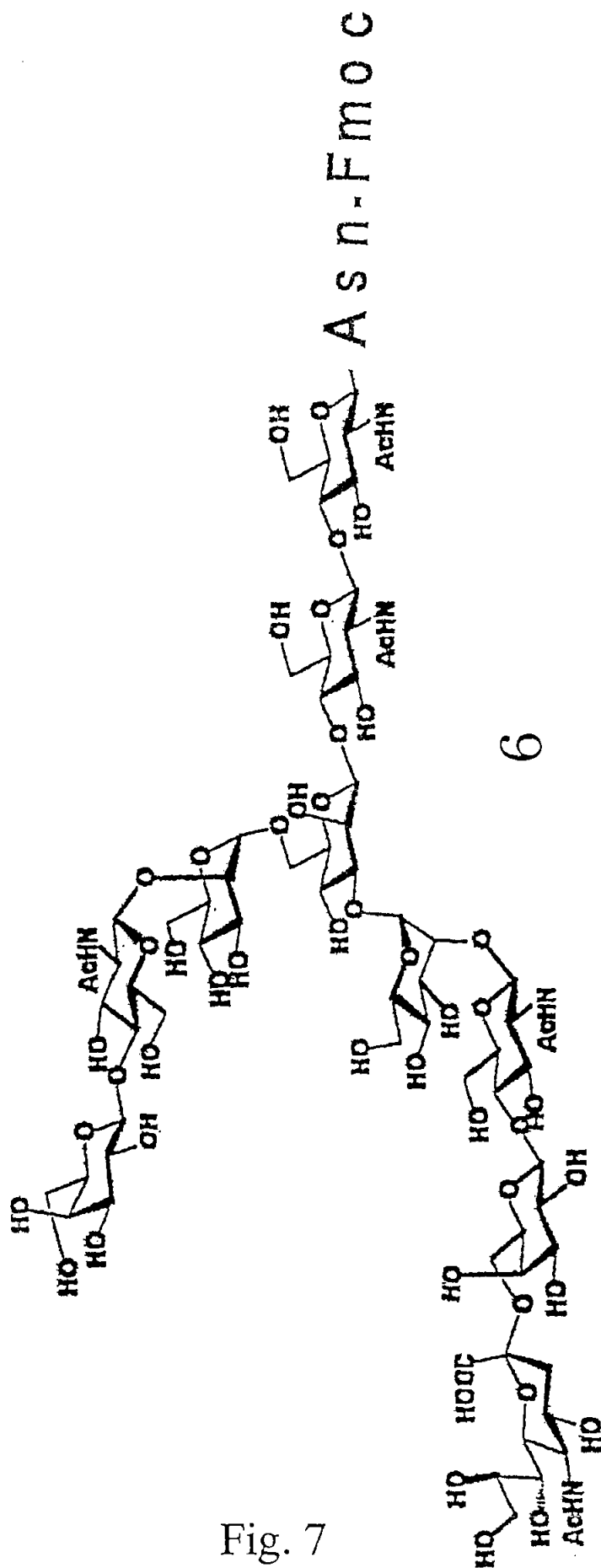


Fig. 7

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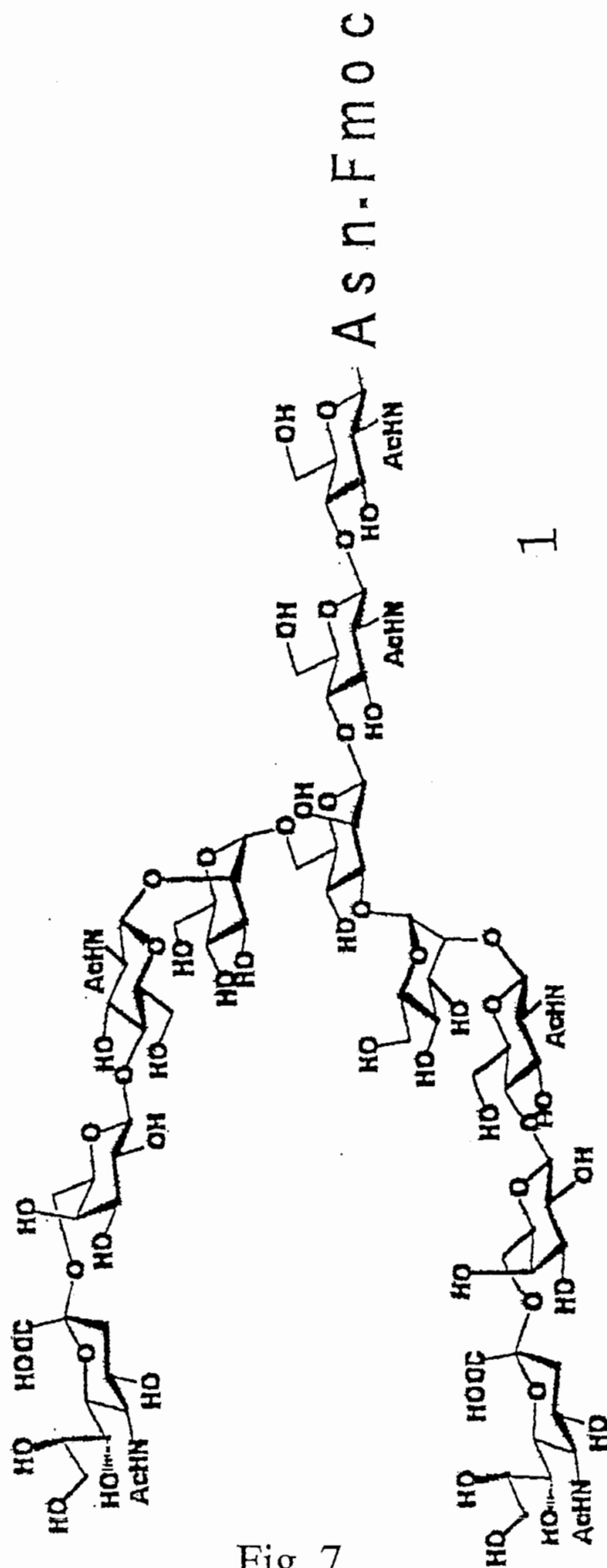
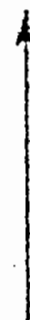
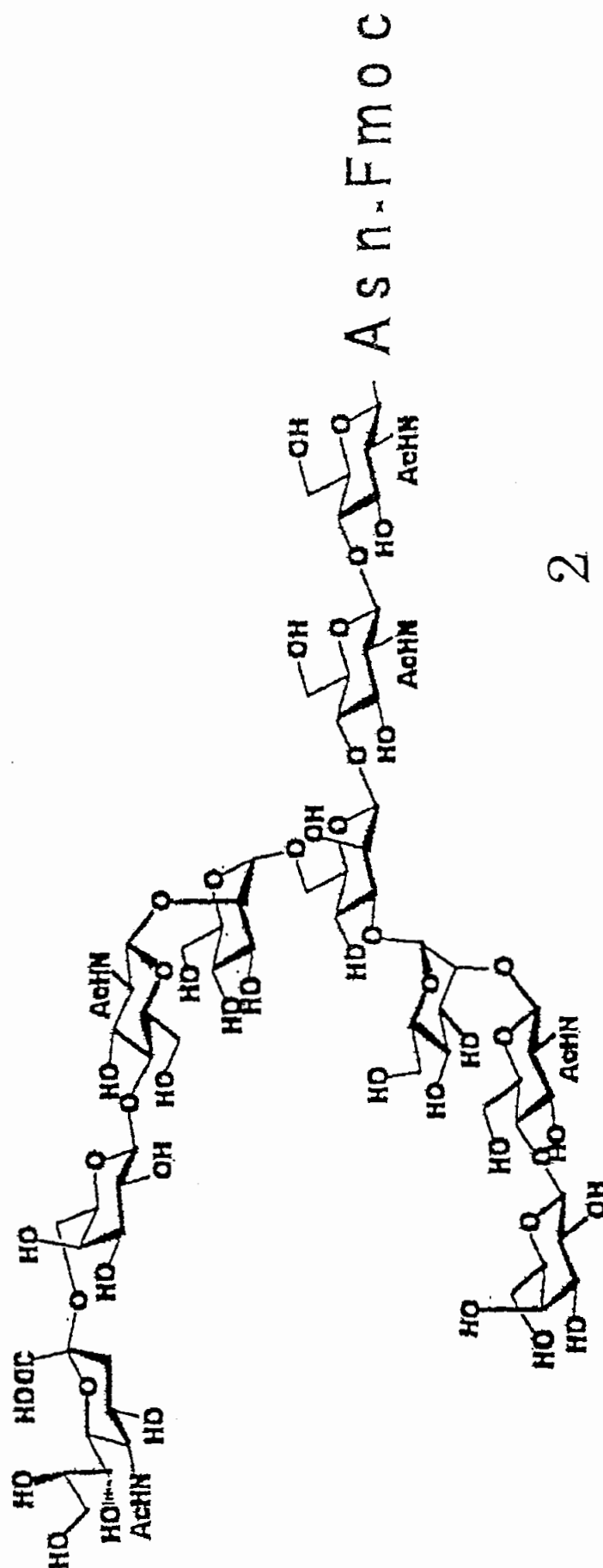


Fig. 7
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Isolation and Purification





2

Fig. 7
7/9/12

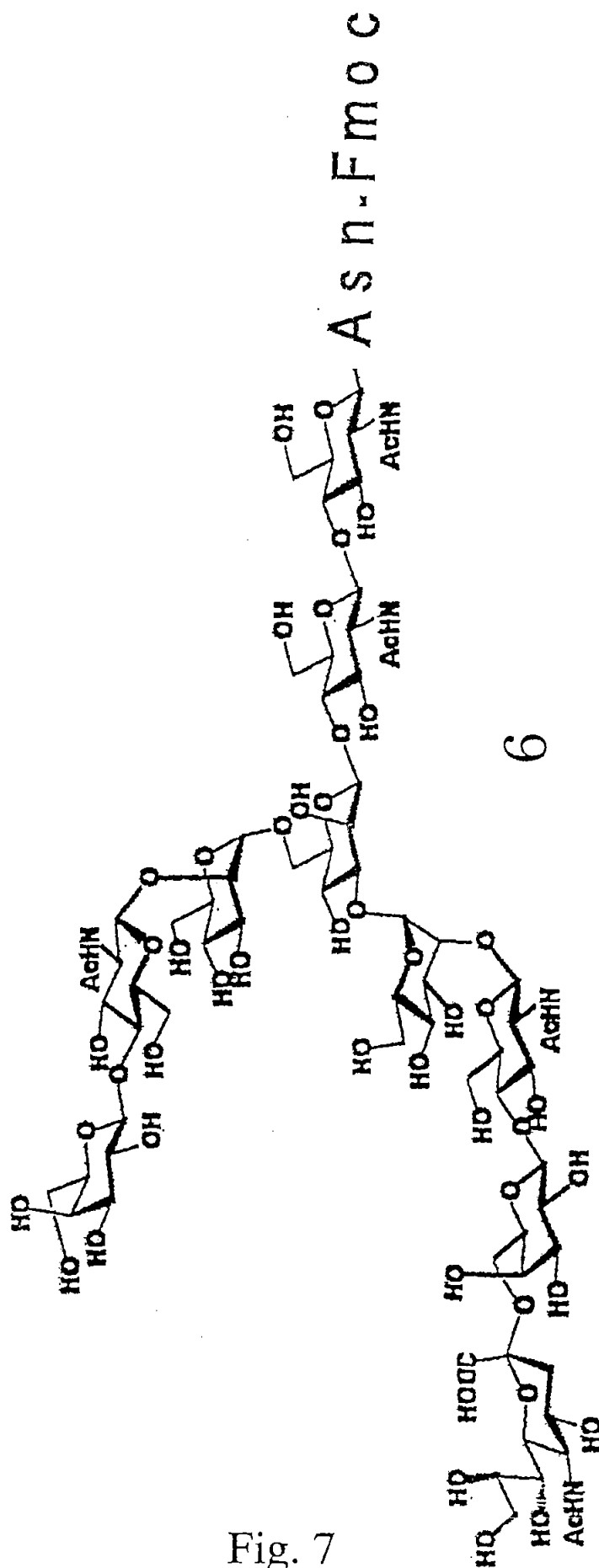
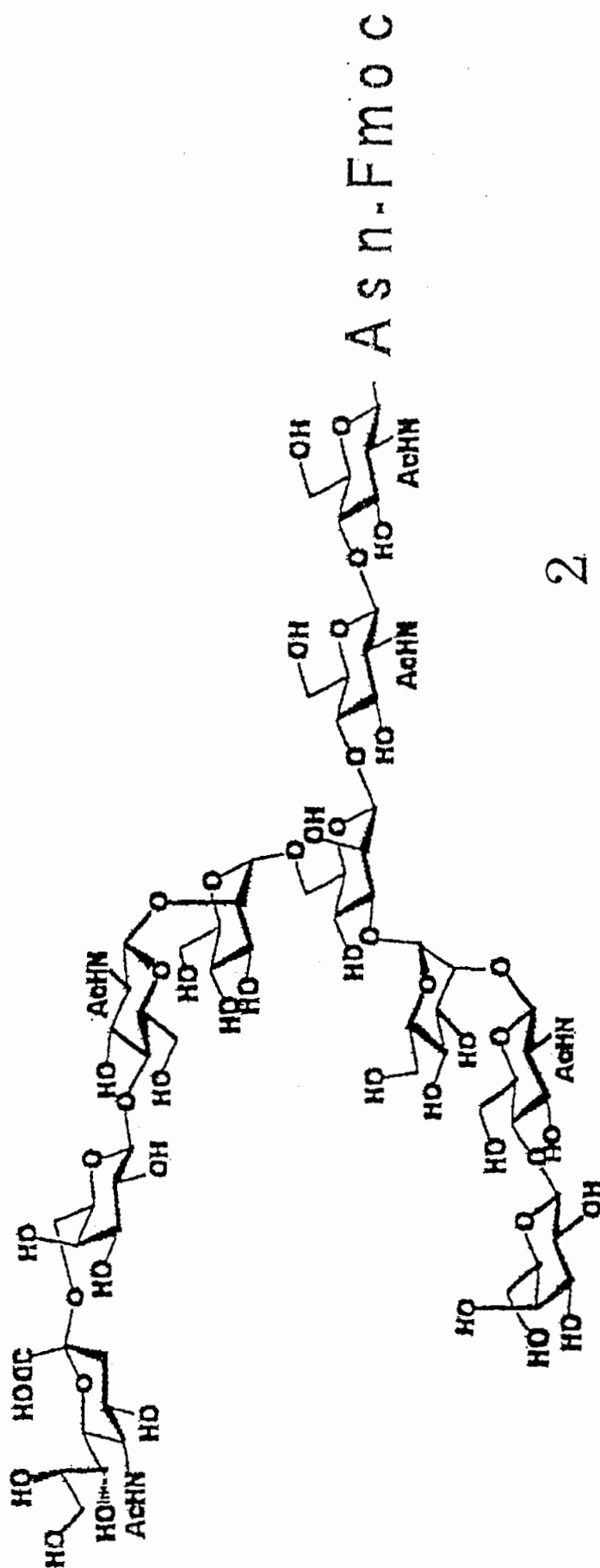
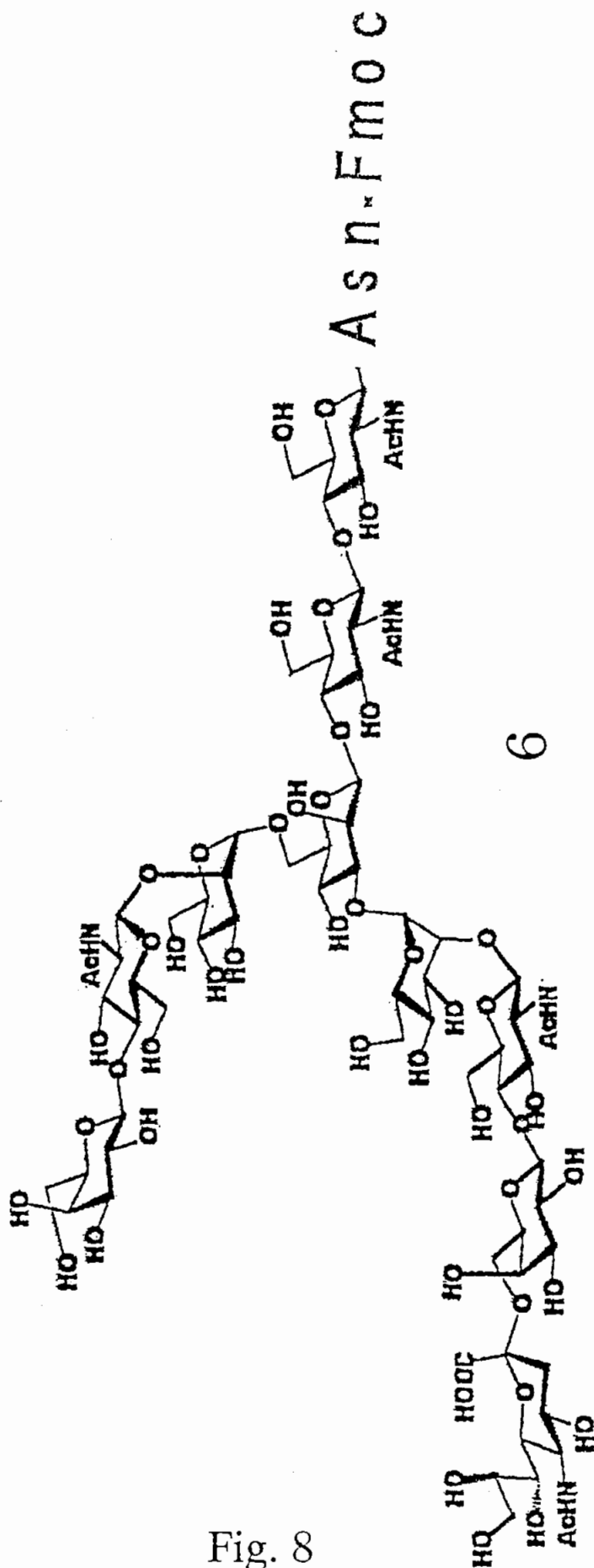


Fig. 7
7/10/12



2

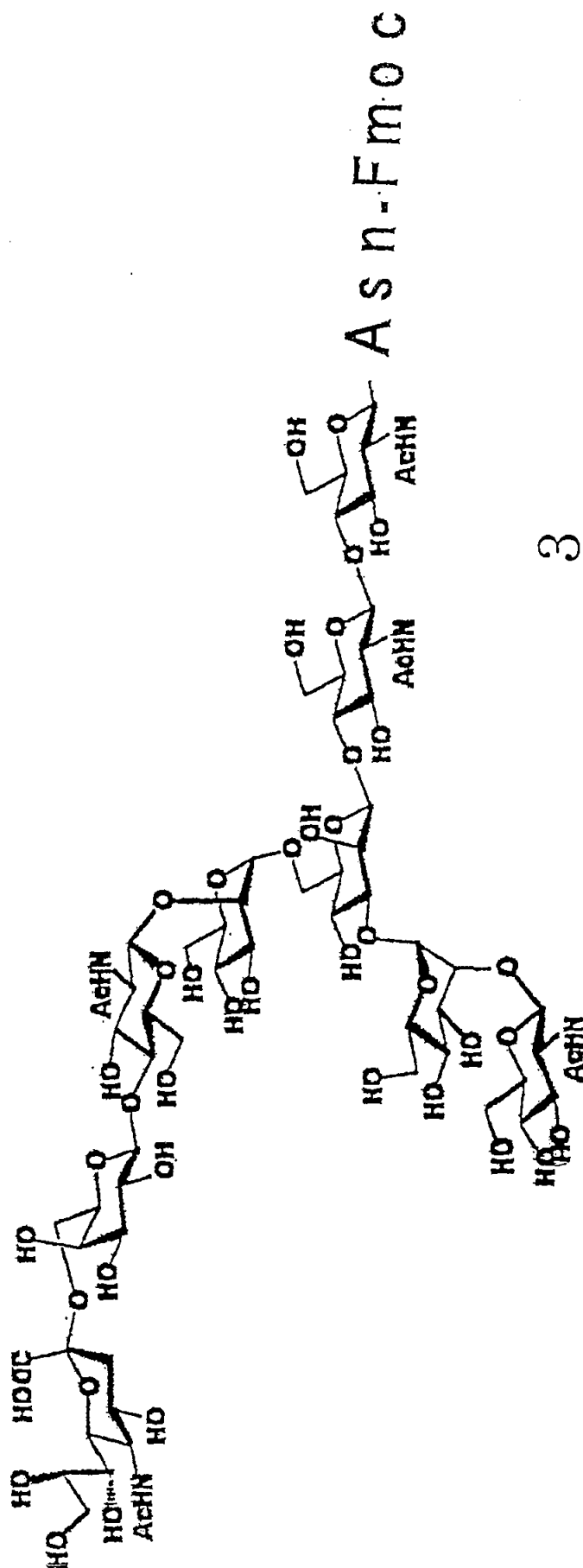
Fig. 8
8/12



Galactosidase



Fig. 8
8/1/12



3

Fig. 8

8/2/12

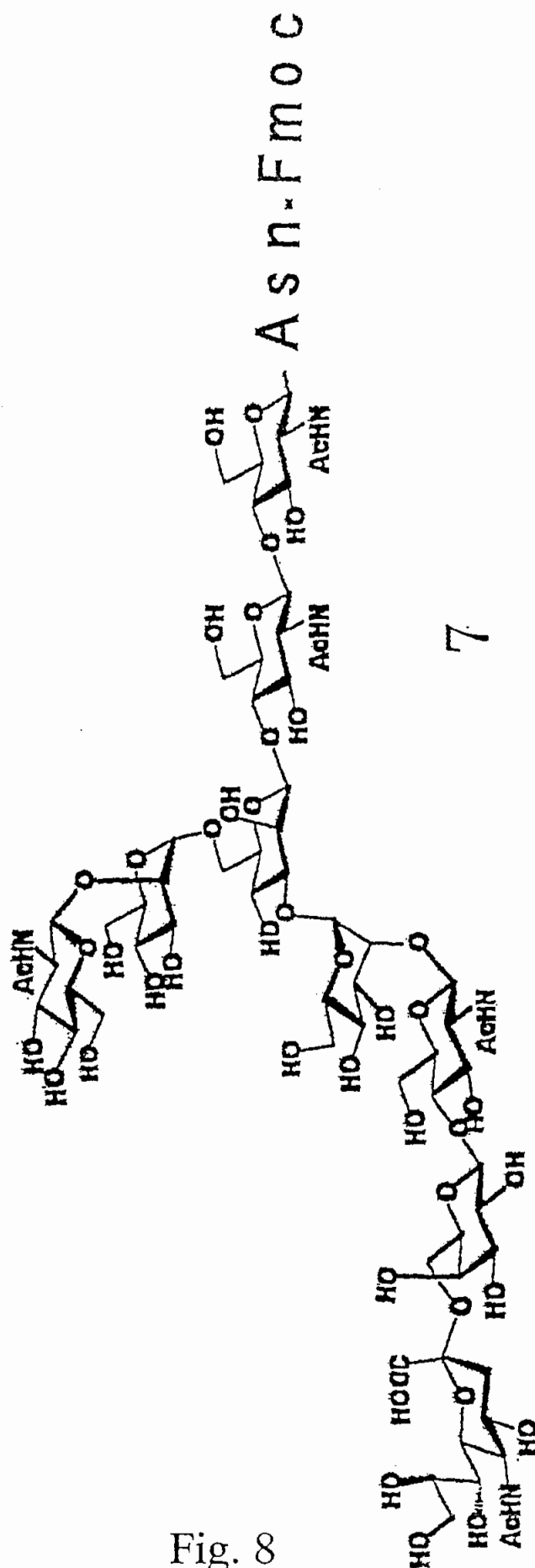
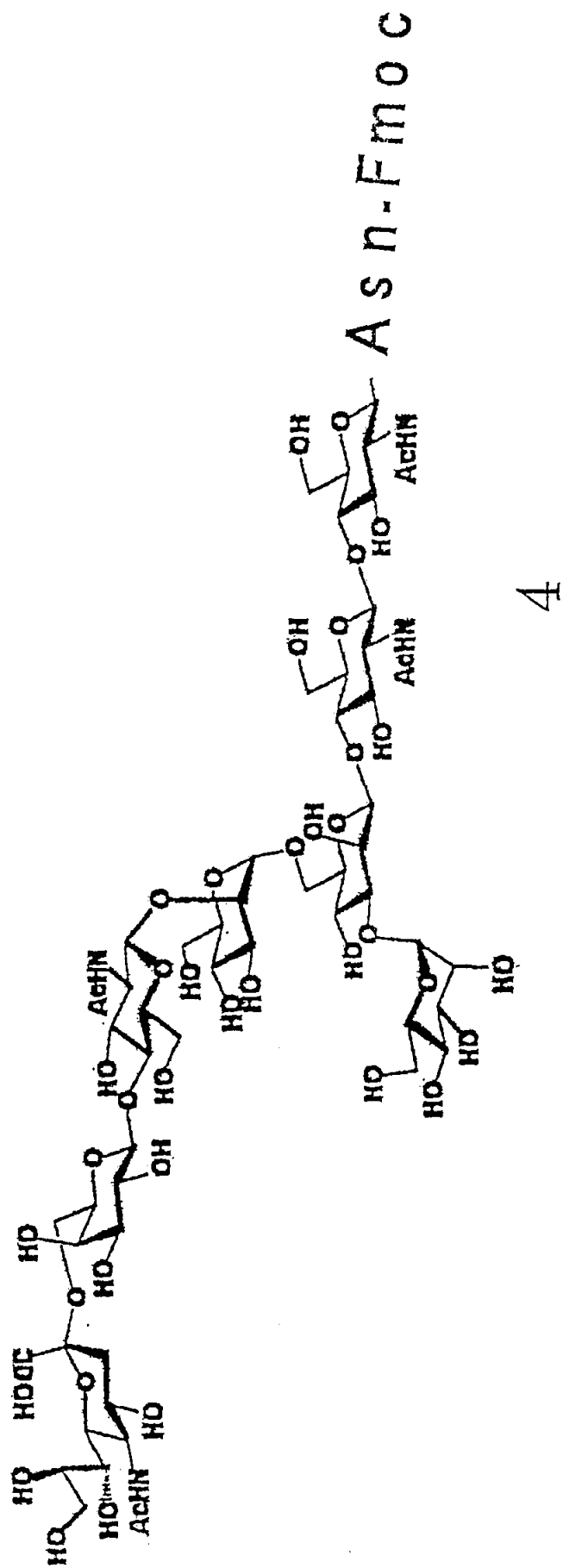


Fig. 8
8/3/12

N-Acetylglucosaminidase





4

Fig. 8
8/4/12

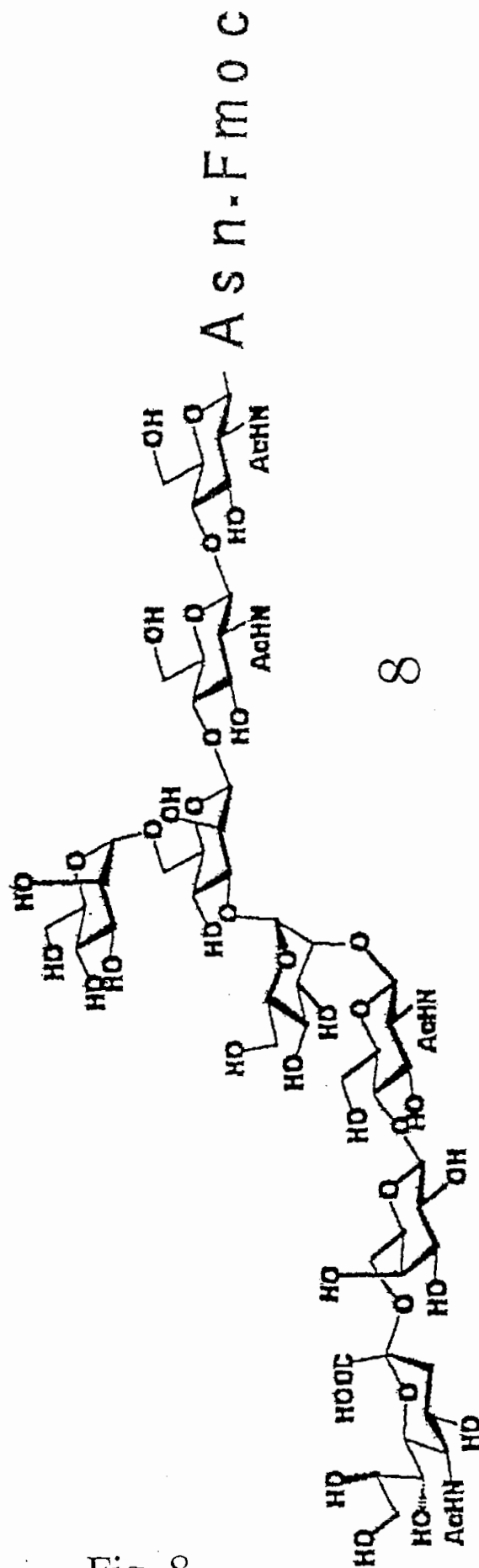


Fig. 8
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Mannosidase



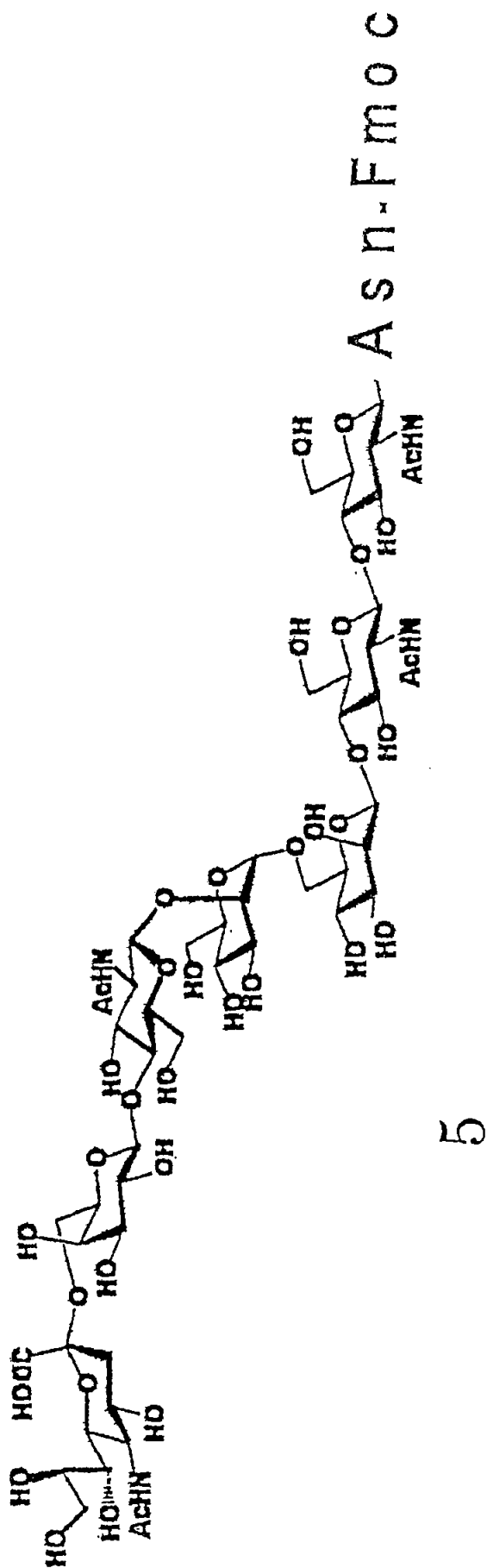
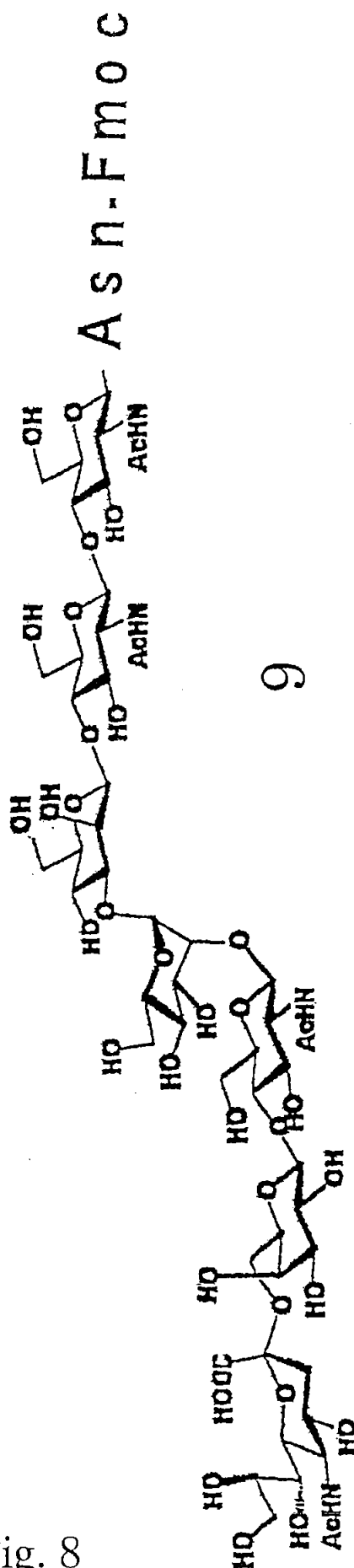


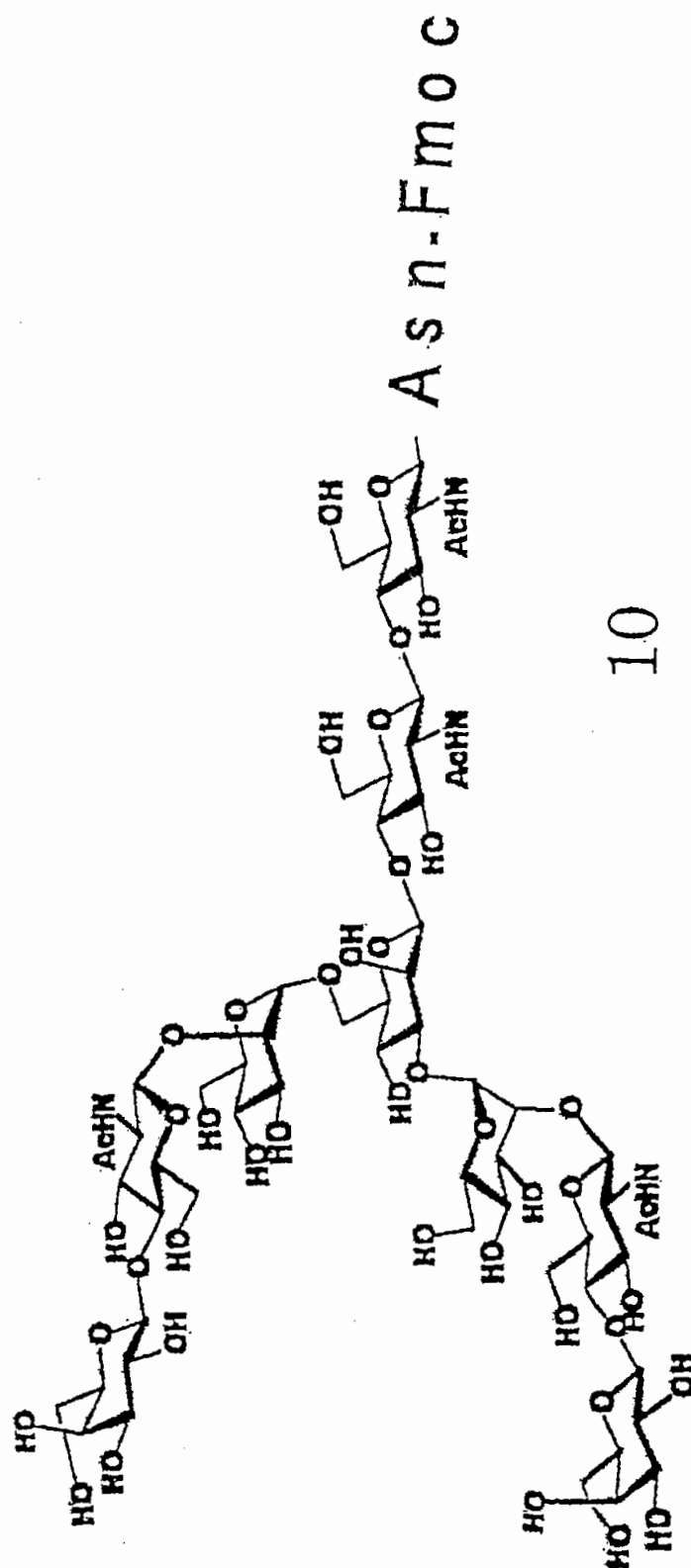
Fig. 8

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Fig. 8
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9

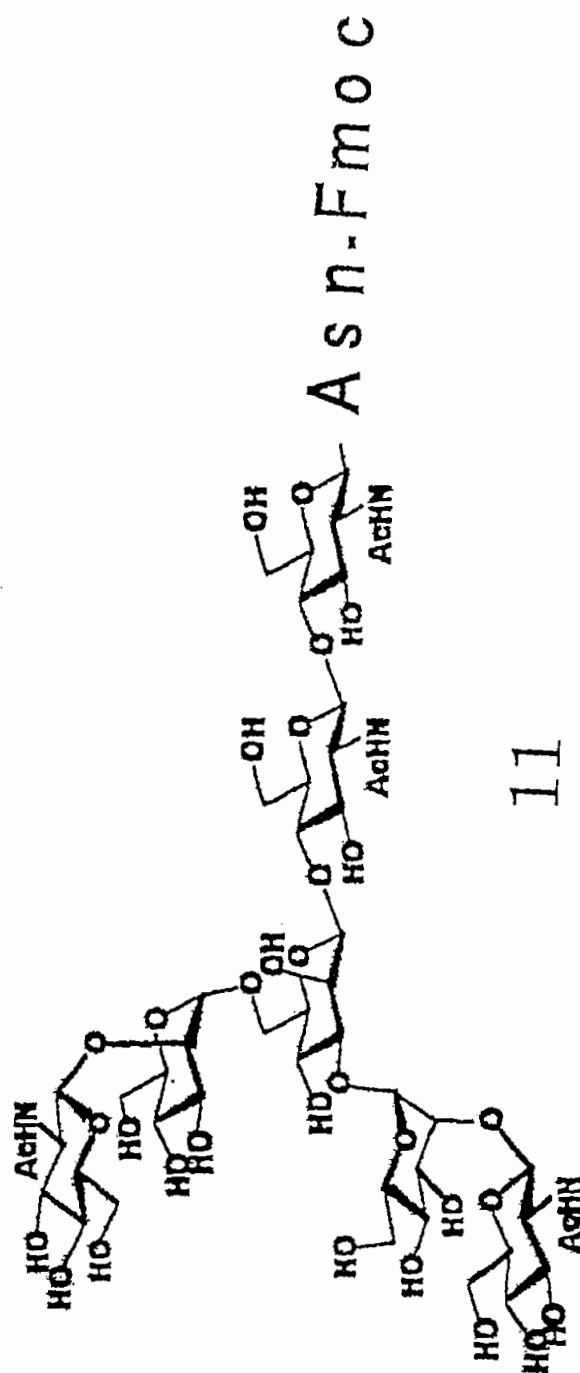


Galactosidase



Fig. 9

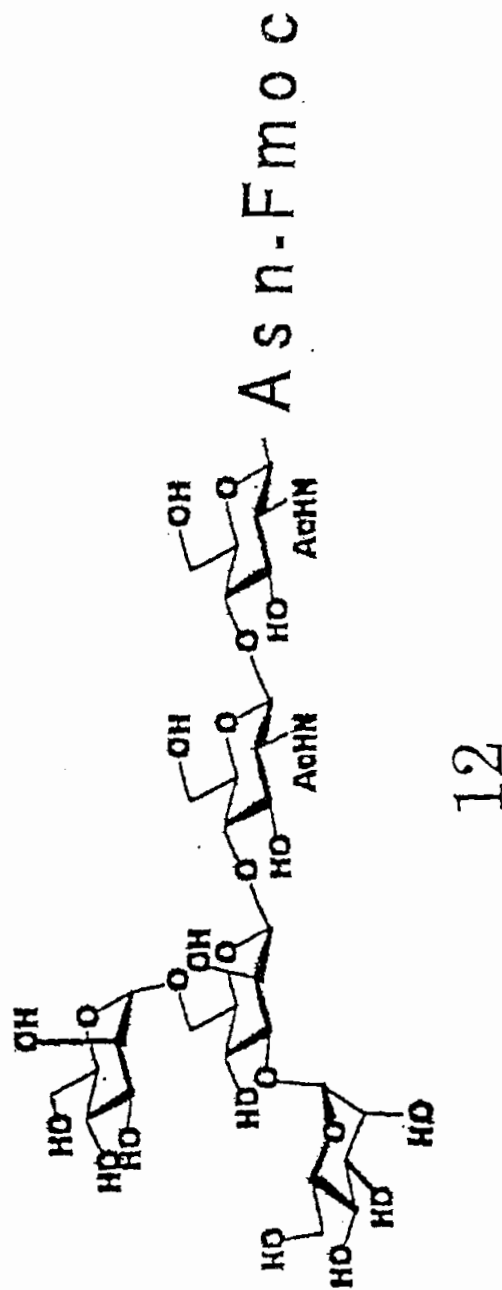
9/12



N-Acetylglucosaminidase



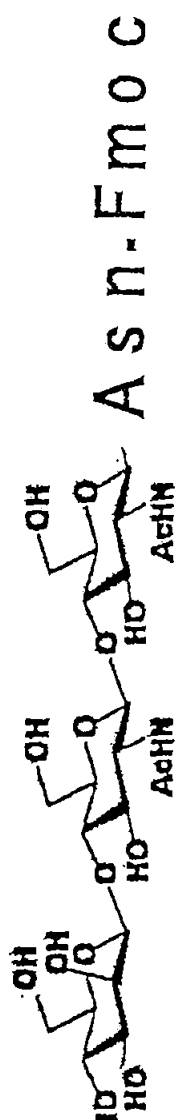
Fig. 9
9/1/12



Mannosidase

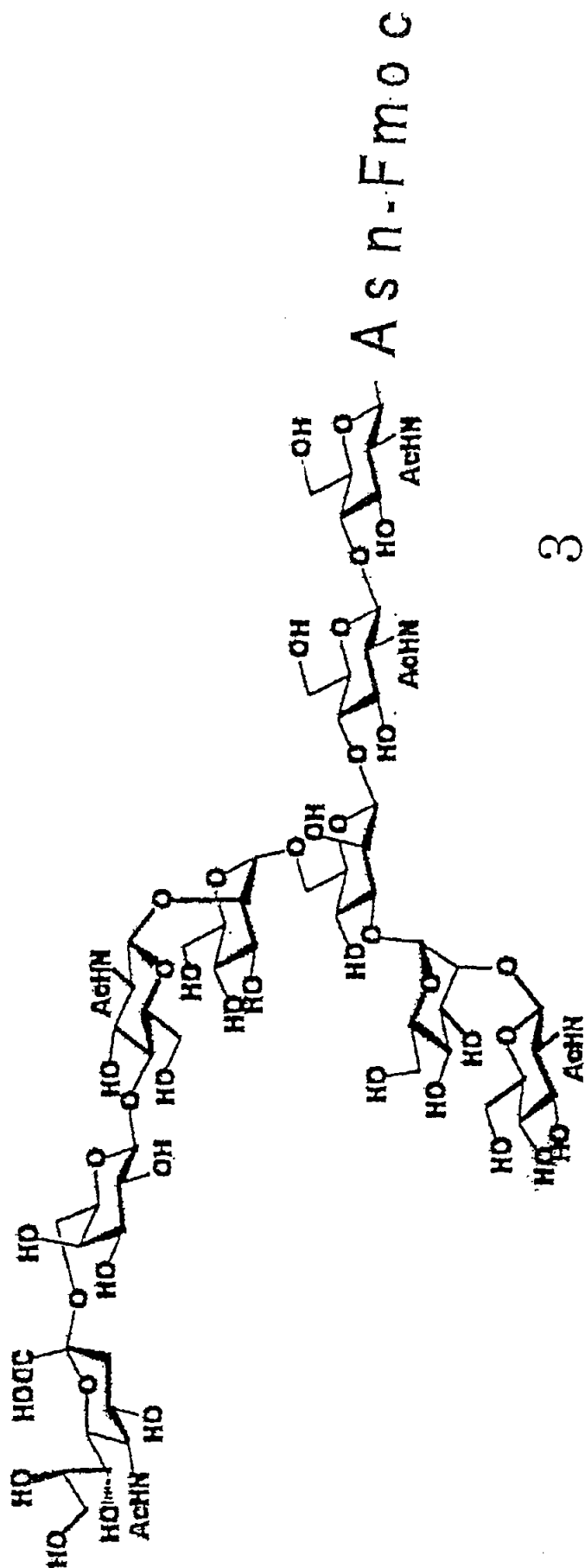


Fig. 9
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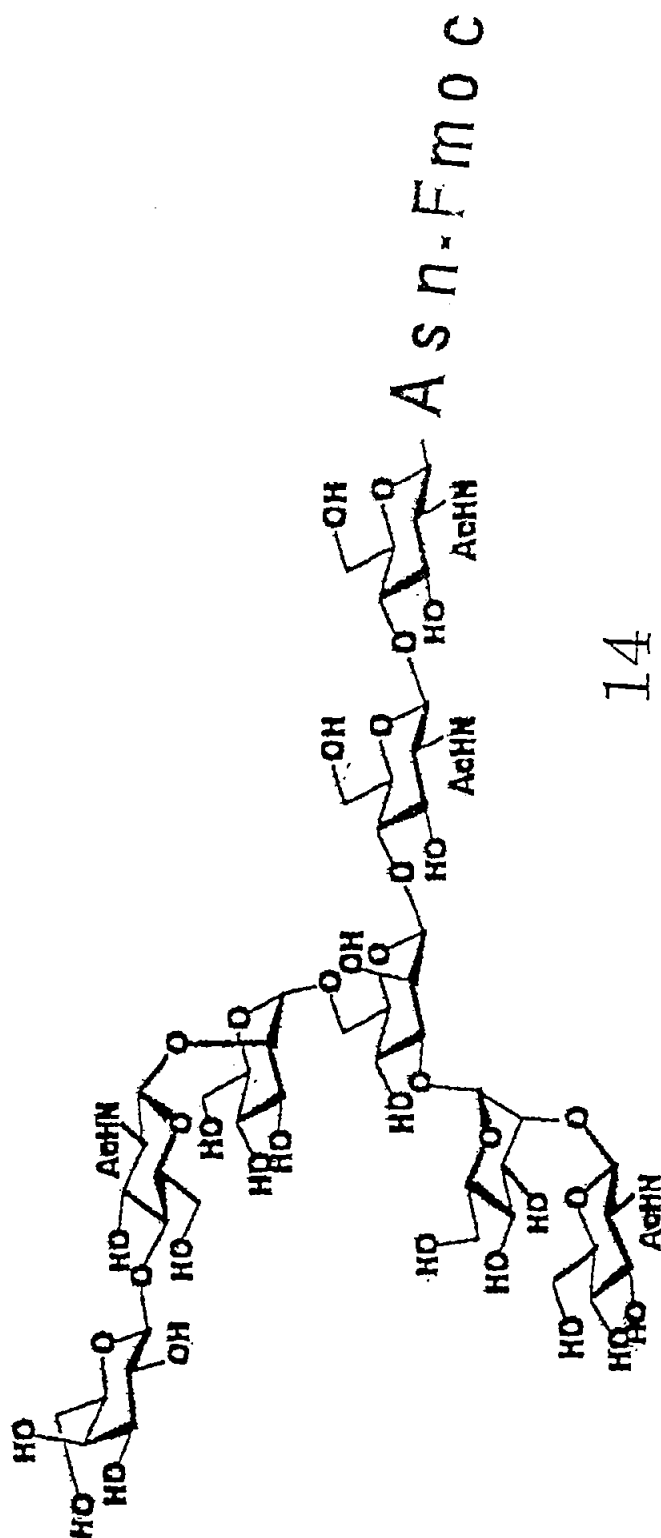
13

Fig. 9
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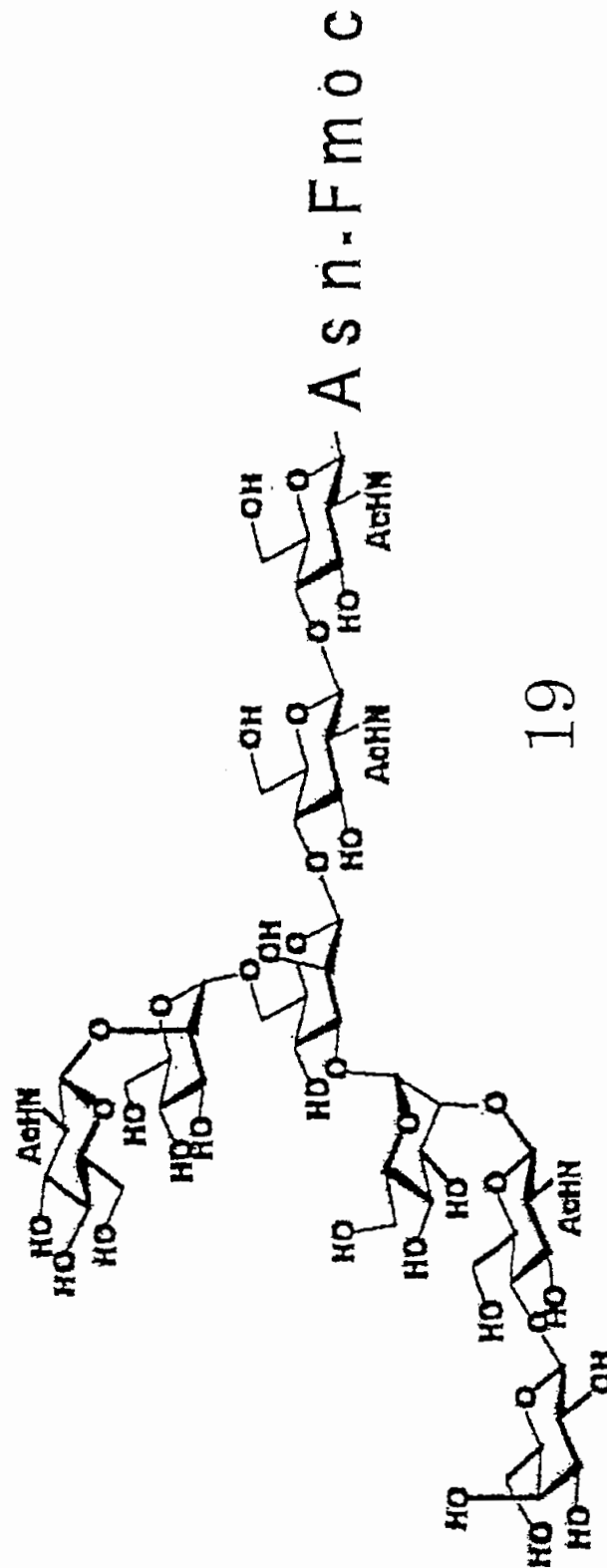
3

Fig. 10
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Fig. 10
10/2/12



N-Acetylglucosaminidase



Fig. 10
10/3/12

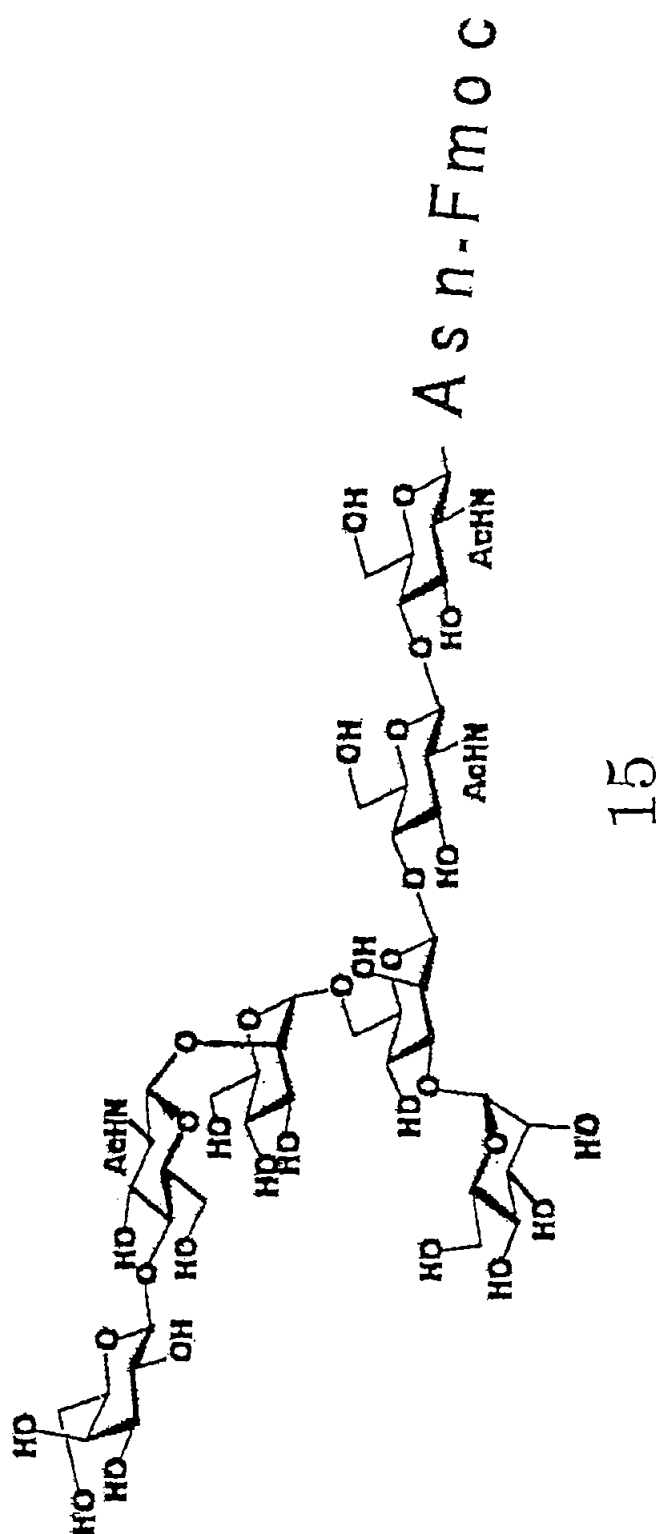
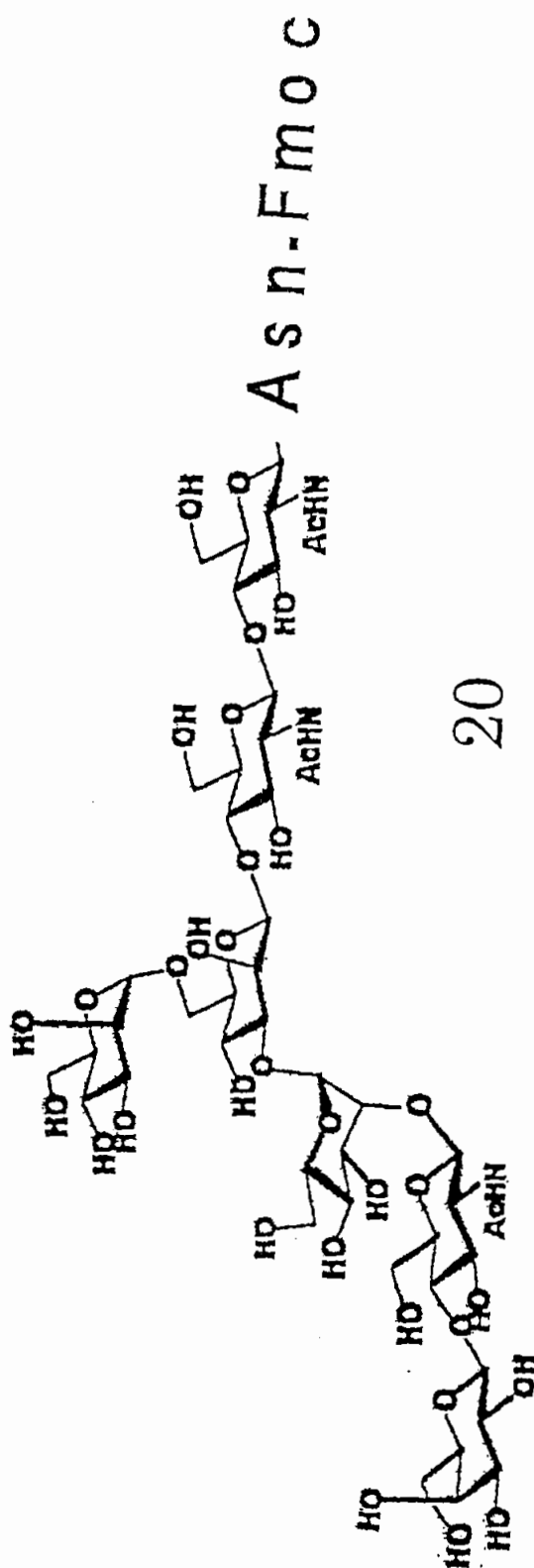


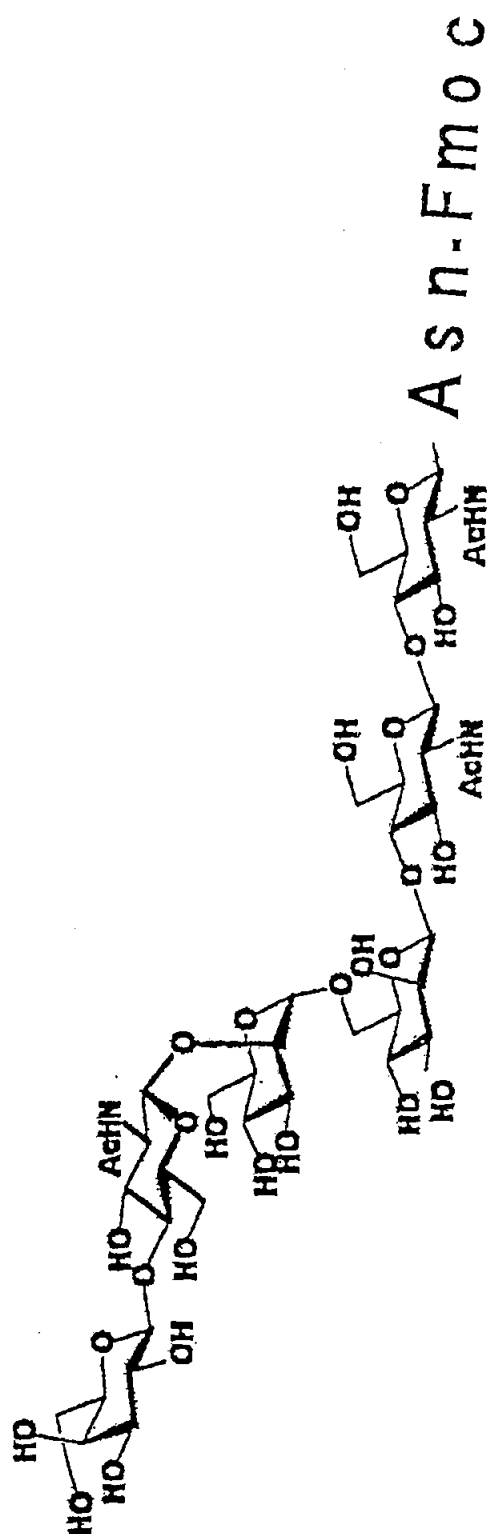
Fig. 10
10/4/12



Mannosidase

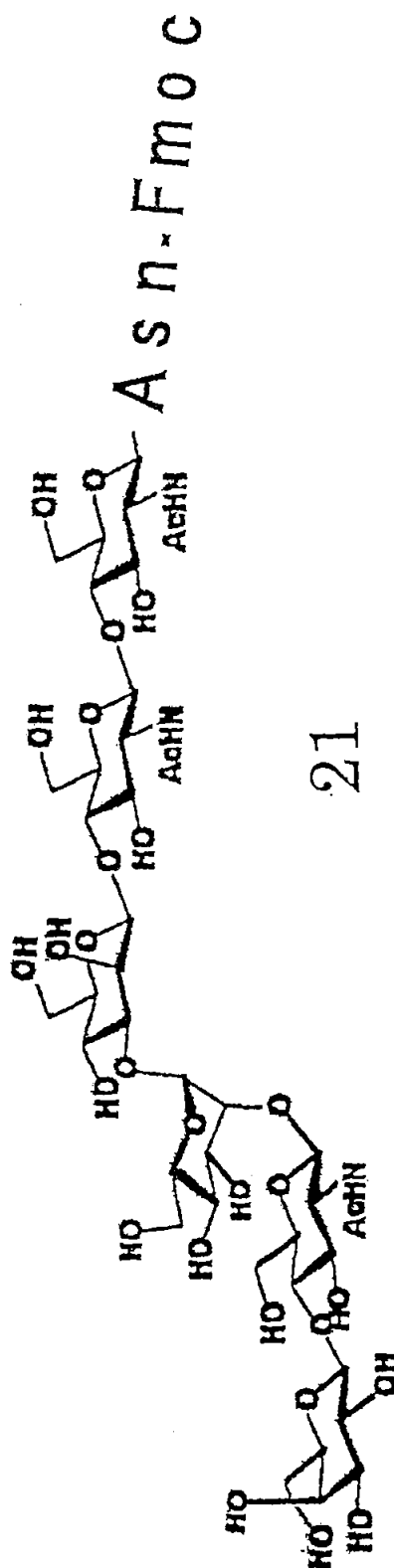


Fig. 10
10/5/12



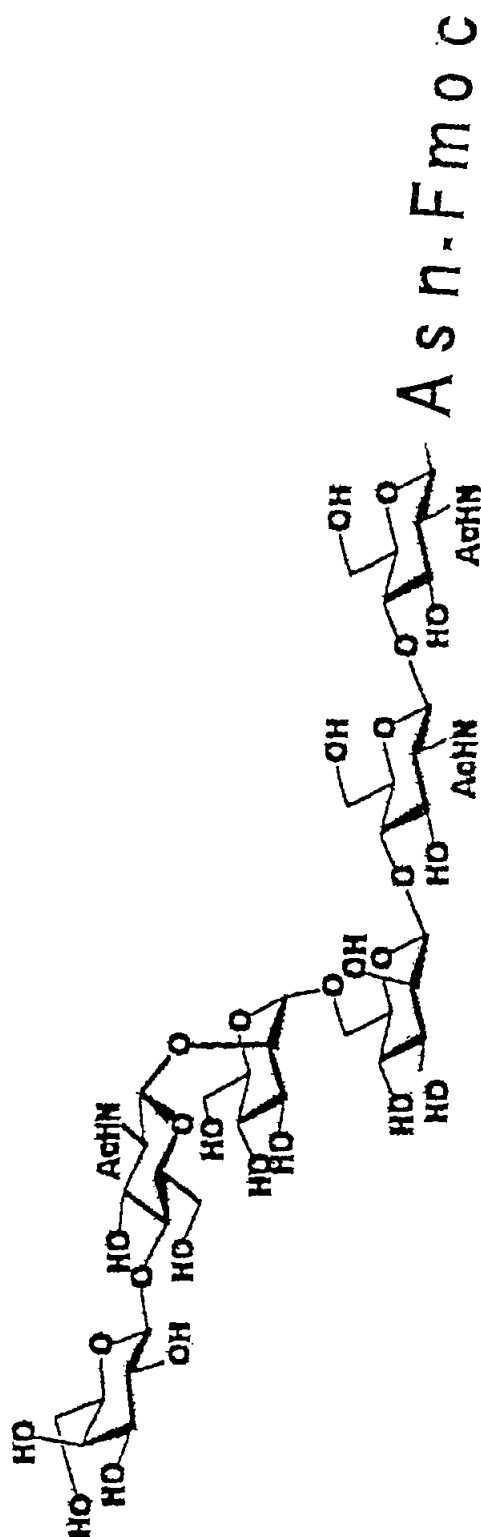
16

Fig. 10
10/6/12



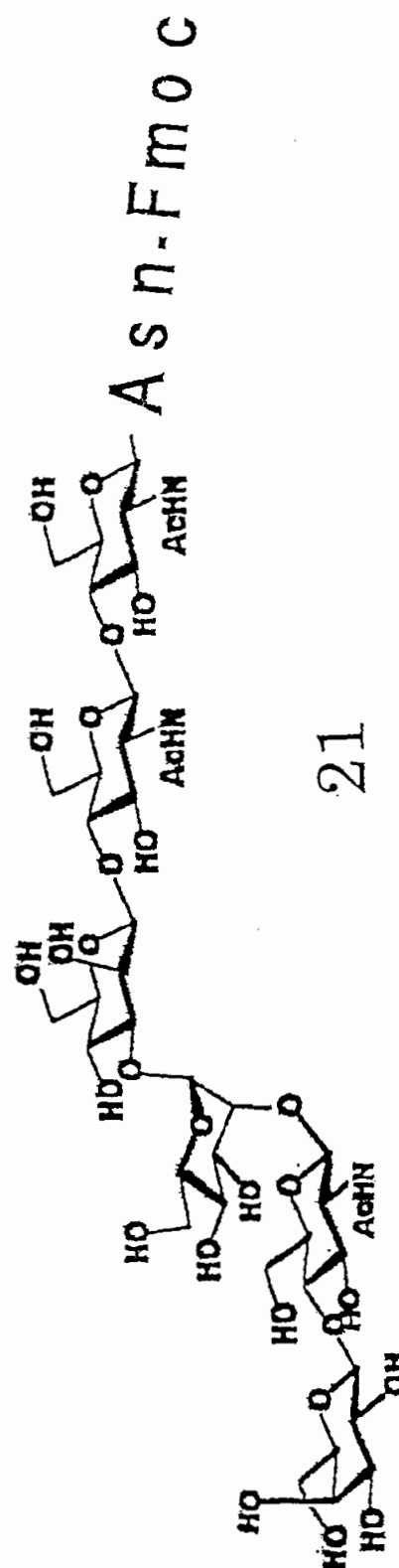
21

Fig. 10
10/7/12



16

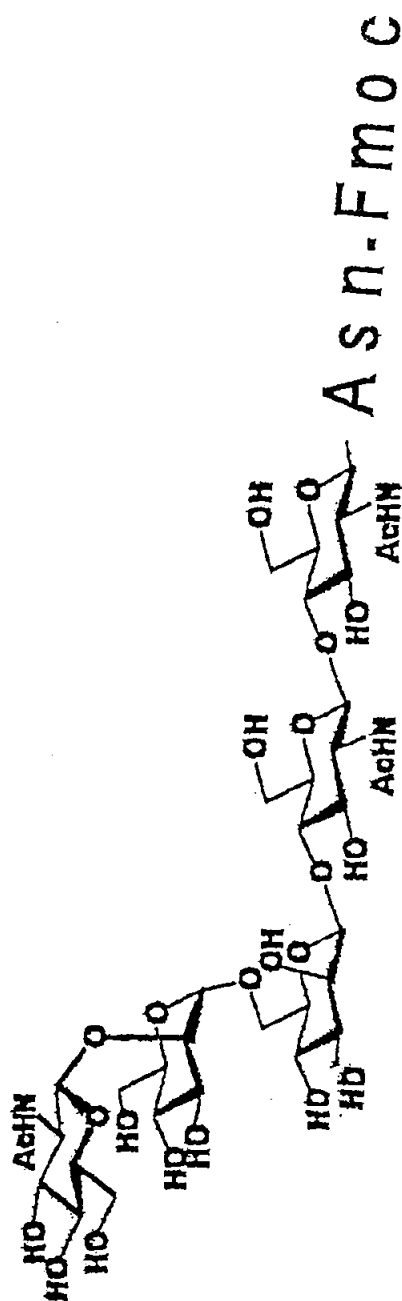
Fig. 11
11/12



Galactosidase

→

Fig. 11
11/1/12



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Fig. 11
11/2/12

11/2/12

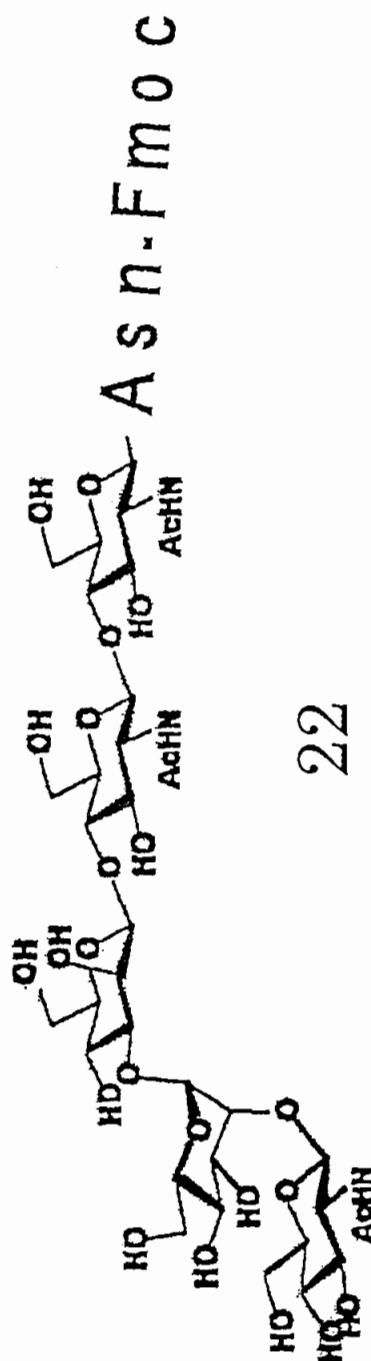
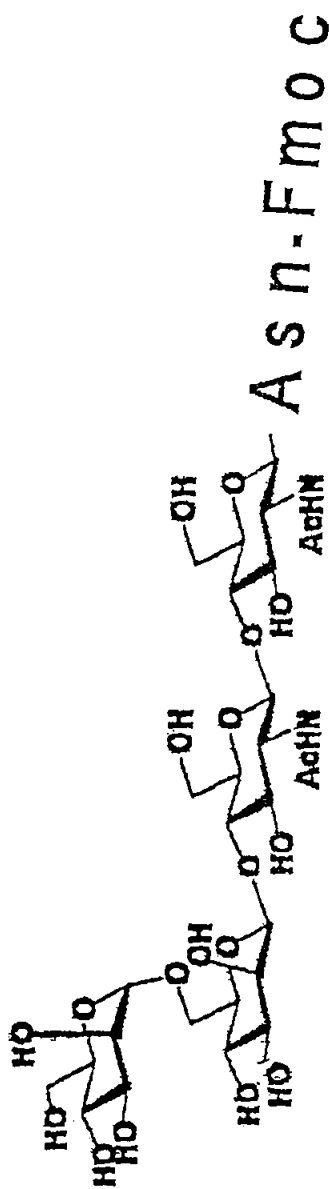


Fig. 11
11/3/12

N-Acetylglucosaminidase





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Fig. 11
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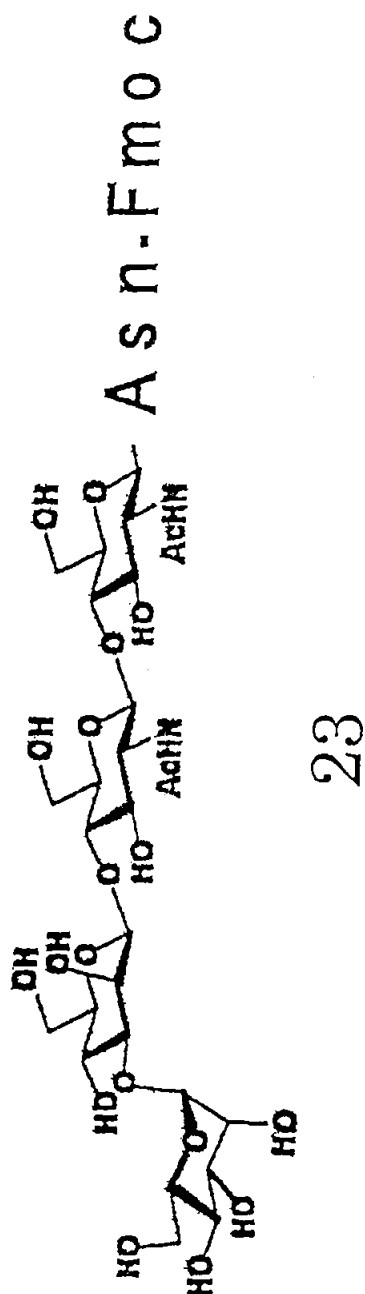
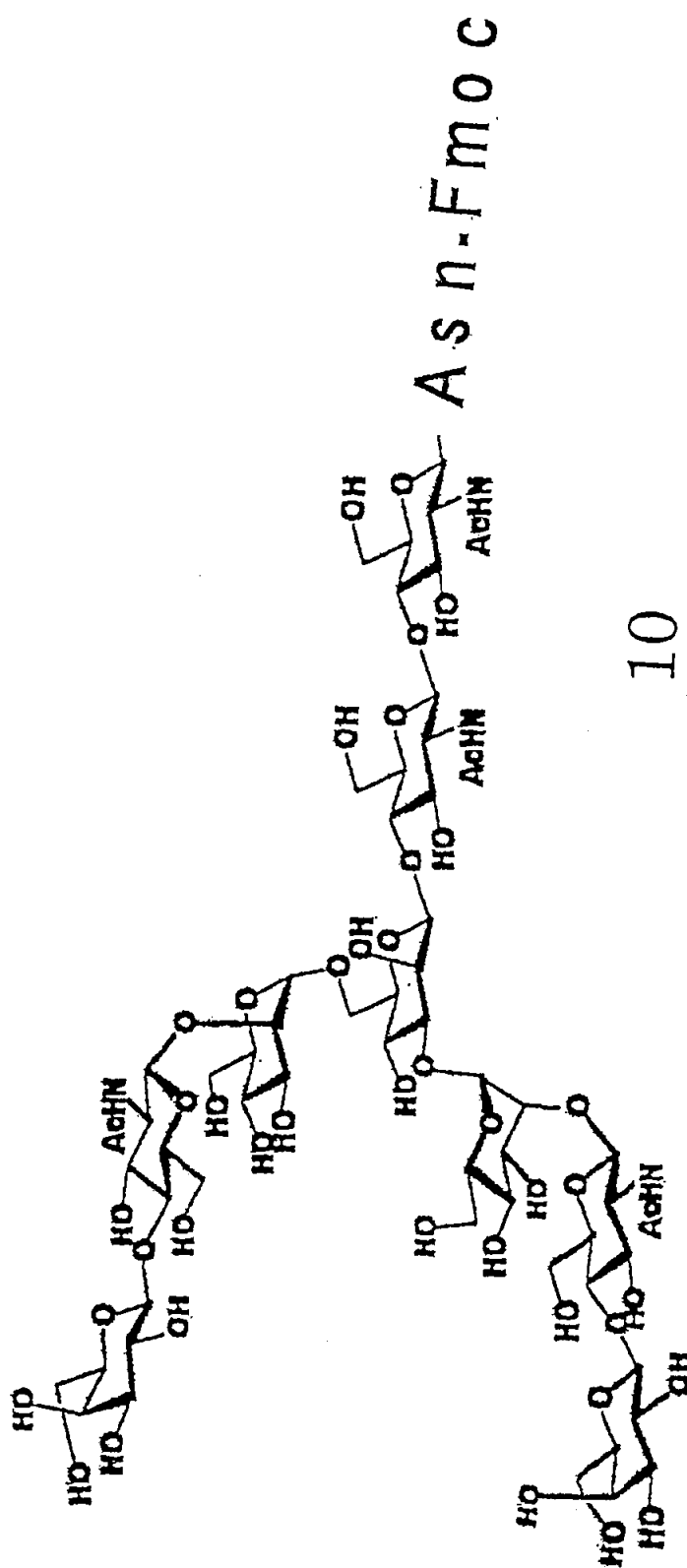


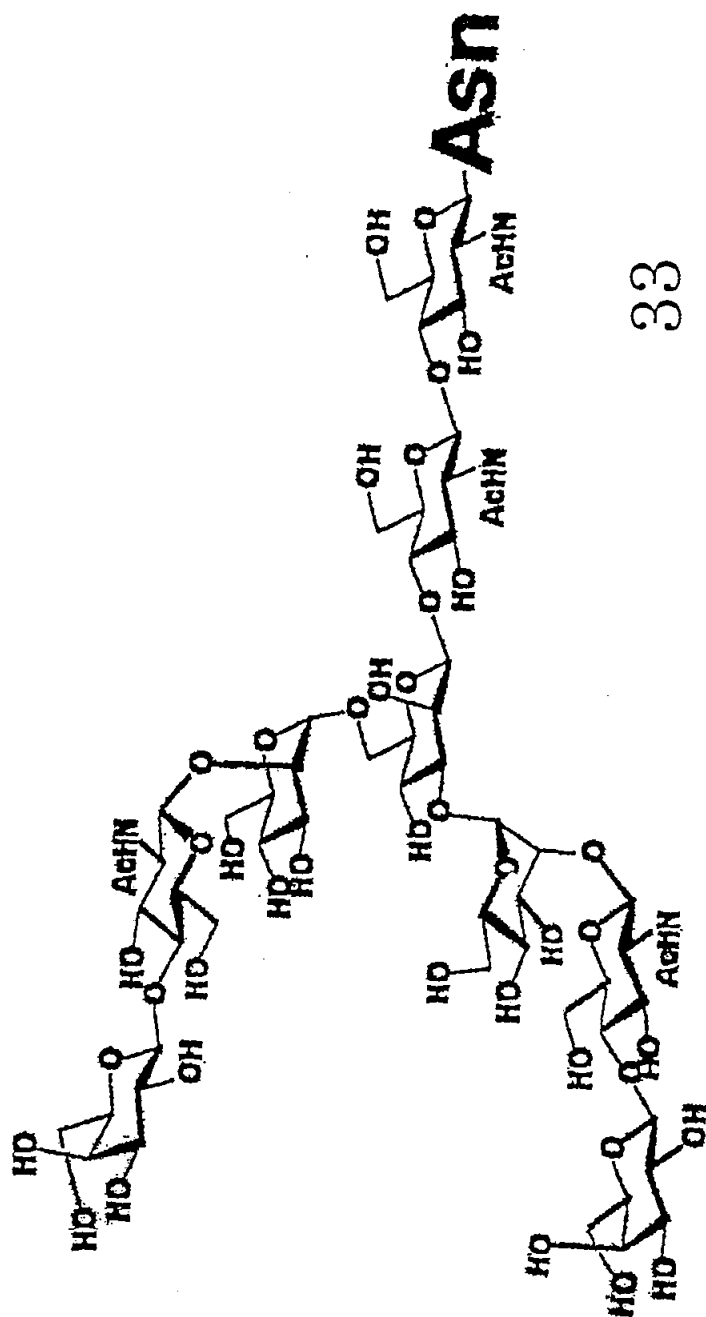
Fig. 11
11/5/12



Morpholine
DMF



Fig. 12
12/12

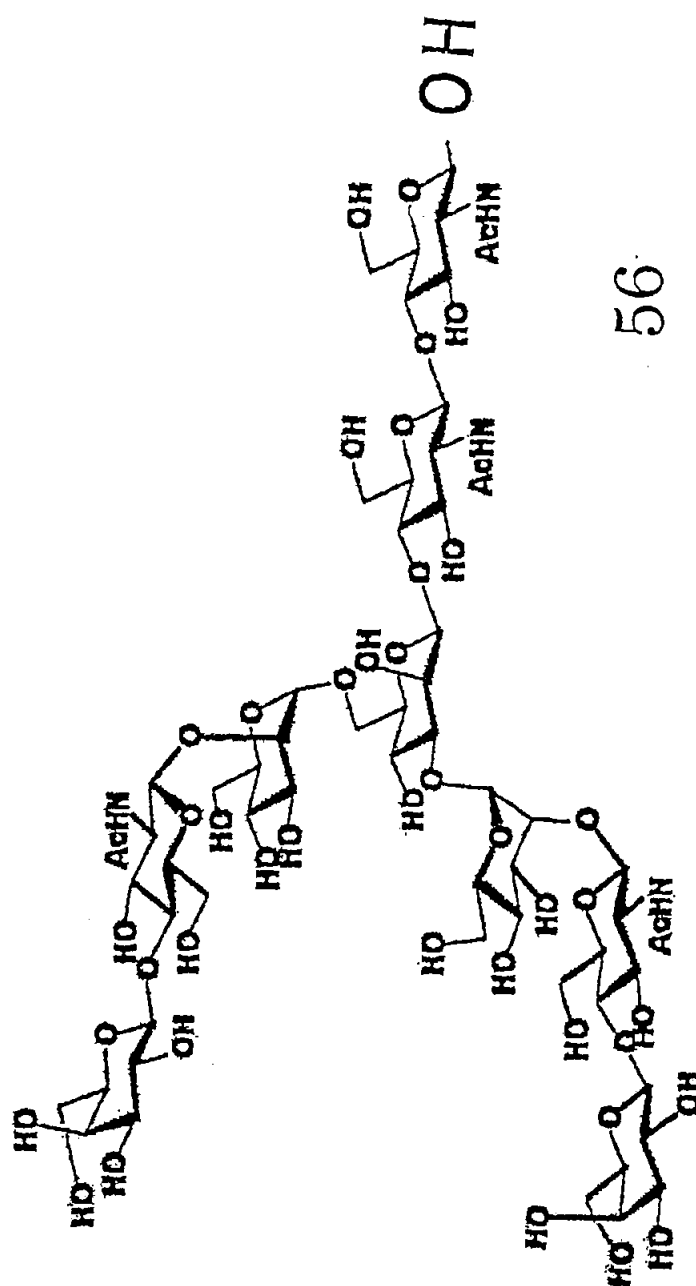


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- 1) Hydrazine
- 2) $\text{Ac}_2\text{O}/\text{NaHCO}_3/\text{H}_2\text{O}$



Fig. 12
12/1/12



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Fig. 12
12/2/12