```
HumanPH20          MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEFC 60
ChimpanzeePH20     MGVLKFKHIFFRSFVKSSGVSQIVFTFLLIPCCLTLNFRAPPVIPNVPFLWAWNAPSEFC 60
                   ************************************************************

HumanPH20          LGKFDEPLDMSLFSFIGSPRINATGQGVTIFYVDRLGYYPYIDSITGVTVNGGIPQKISL 120
ChimpanzeePH20     LGKFDEPLDMSLFSFIGSPRINVTGQDVTIFYVDRLGYYPYIDSITGVTVNGGIPQKISL 120
                   ********************.***.********************************

HumanPH20          QDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLS 180
ChimpanzeePH20     QDHLDKAKKDITFYMPVDNLGMAVIDWEEWRPTWARNWKPKDVYKNRSIELVQQQNVQLS 180
                   ************************************************************

HumanPH20          LTEATEKAKQEFEKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFN 240
ChimpanzeePH20     LTEATEKAKQEFEKAGKDFLVETIKLGKLLRPNHLWGYYLFPDCYNHHYKKPGYNGSCFN 240
                   ************************************************************

HumanPH20          VEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVREAIRVSKIPDAKSPLPV 300
ChimpanzeePH20     VEIKRNDDLSWLWNESTALYPSIYLNTQQSPVAATLYVRNRVQEAIRVSKIPDAKSPLPV 300
                   ****************************************.*******************

HumanPH20          FAYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMRSMKSCLLLDNYMET 360
ChimpanzeePH20     FVYTRIVFTDQVLKFLSQDELVYTFGETVALGASGIVIWGTLSIMRSMKSCLLLDNYMET 360
                   * ***********************************************************

HumanPH20          ILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNPDNFAIQLEKGGKFTVRGK 420
ChimpanzeePH20     ILNPYIINVTLAAKMCSQVLCQEQGVCIRKNWNSSDYLHLNPDNFAIQLEKGGKFTVRGK 420
                   ************************************************************

HumanPH20          PTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIADGVCIDAFLKPPMETEEPQI 480
ChimpanzeePH20     PTLEDLEQFSEKFYCSCYSTLSCKEKADVKDTDAVDVCIADGVCIDAFLKPPMETEESQI 480
                   ************************************************************.**

HumanPH20          FYNASPSTLSATMFI-VSILFLIISSVASL 509
ChimpanzeePH20     FYNASPSTLSATMFIDLCDLYLVPTSYLIL 510
                   *************** :. *:*: :*   *
```

FIG. 1

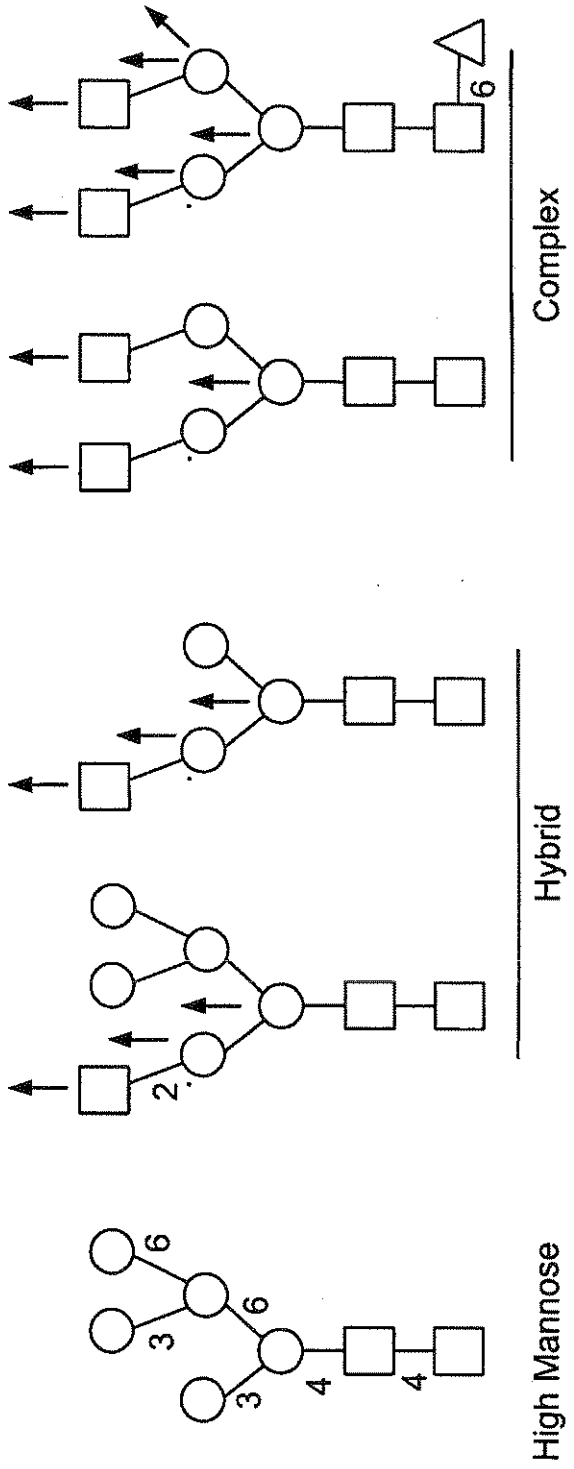

High Mannose
Hybrid
Complex
N-acetylglucosamine
Mannose
Fucose

FIG. 2

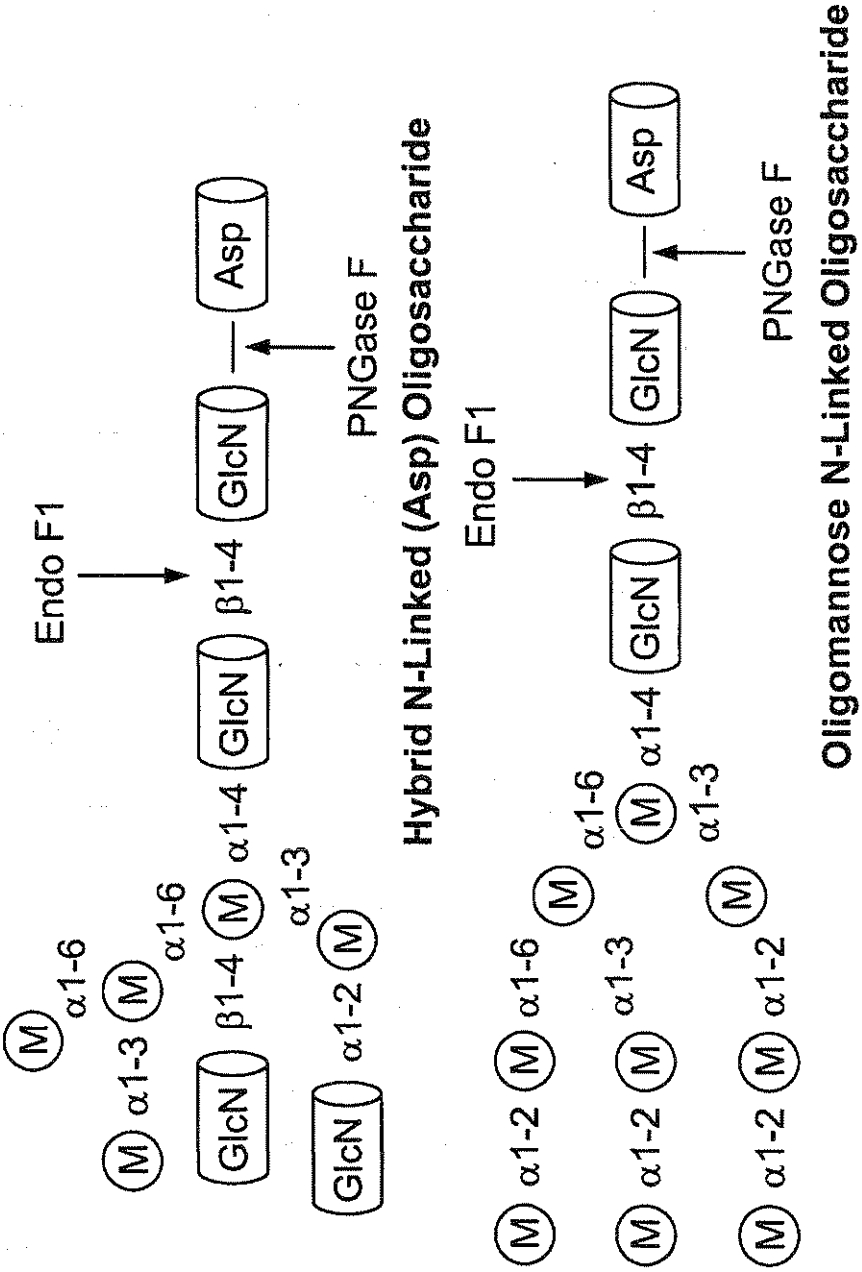

Endo F1
M α1-6
M α1-3 M α1-6
GlcN β1-4 M α1-4 GlcN β1-4 GlcN — Asp
GlcN α1-2 M α1-3
PNGase F
Hybrid N-Linked (Asp) Oligosaccharide
Endo F1
M α1-2 M α1-6 M α1-6
M α1-2 M α1-3 M α1-4 GlcN β1-4 GlcN — Asp
M α1-2 M α1-2 M α1-3
PNGase F
Oligomannose N-Linked Oligosaccharide

FIG. 3A

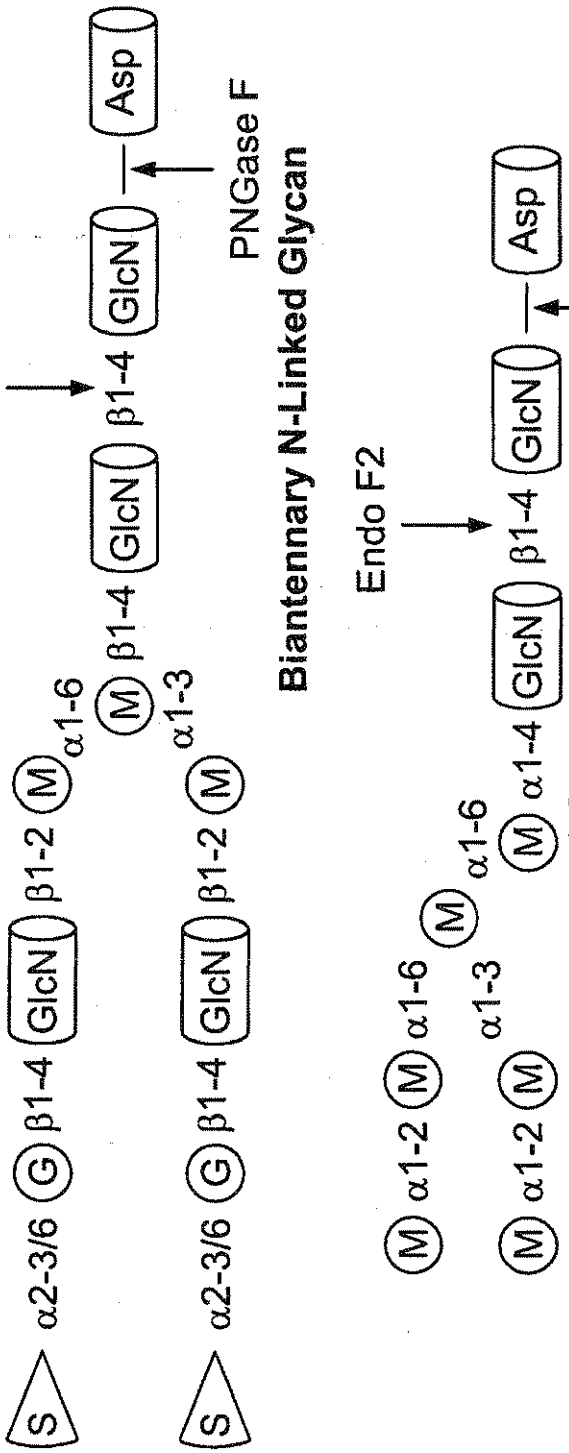

Endo F2
S
α2-3/6
G
β1-4
GlcN
β1-2
M
α1-6
M
β1-4
GlcN
β1-4
GlcN
Asp
PNGase F
α1-3
Biantennary N-Linked Glycan
Endo F2
M
α1-2
M
α1-6
M
α1-3
M
α1-2
M
α1-3
M
α1-2
M
α1-6
M
α1-4
GlcN
β1-4
GlcN
Asp
PNGase F
Oligomannose N-Linked Glycan

FIG. 3B

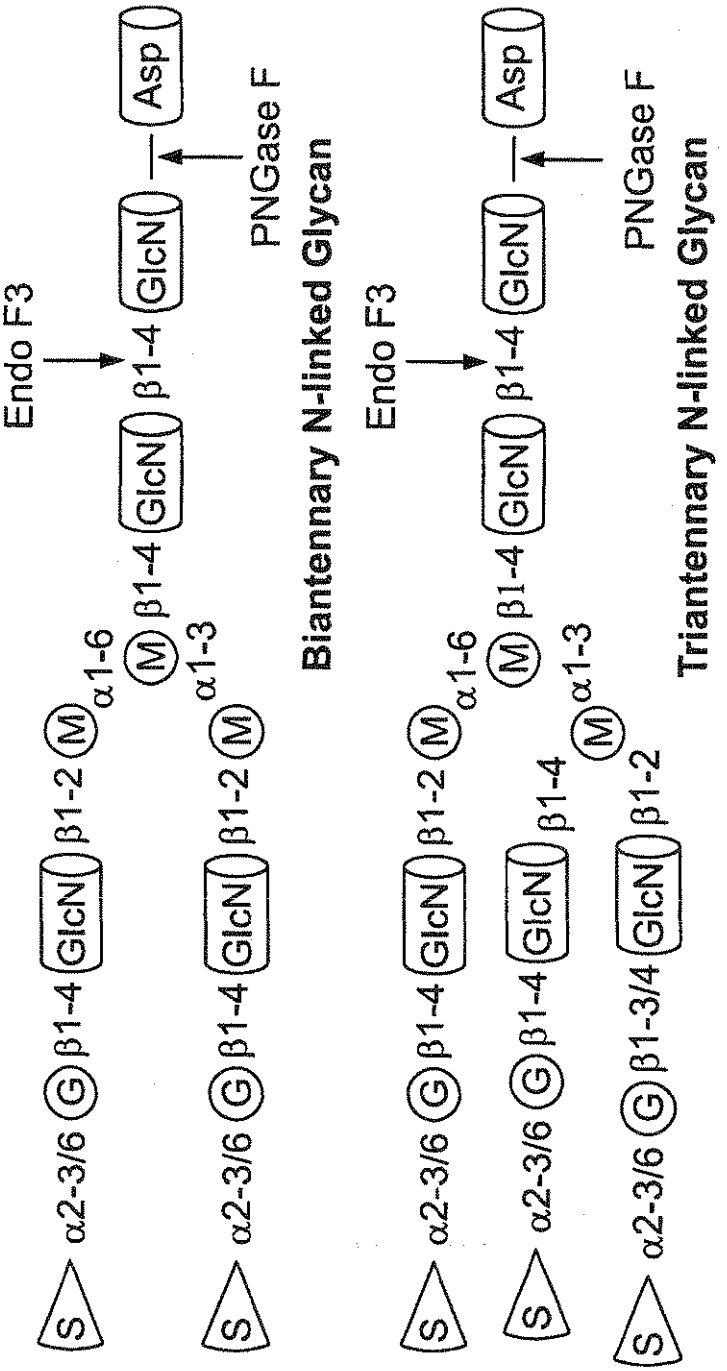

Endo F3
PNGase F
Biantennary N-linked Glycan
Endo F3
PNGase F
Triantennary N-linked Glycan
S
α2-3/6
G
β1-4
GlcN
β1-2
M
α1-6
α1-3
β1-3/4
Asp

FIG. 3C

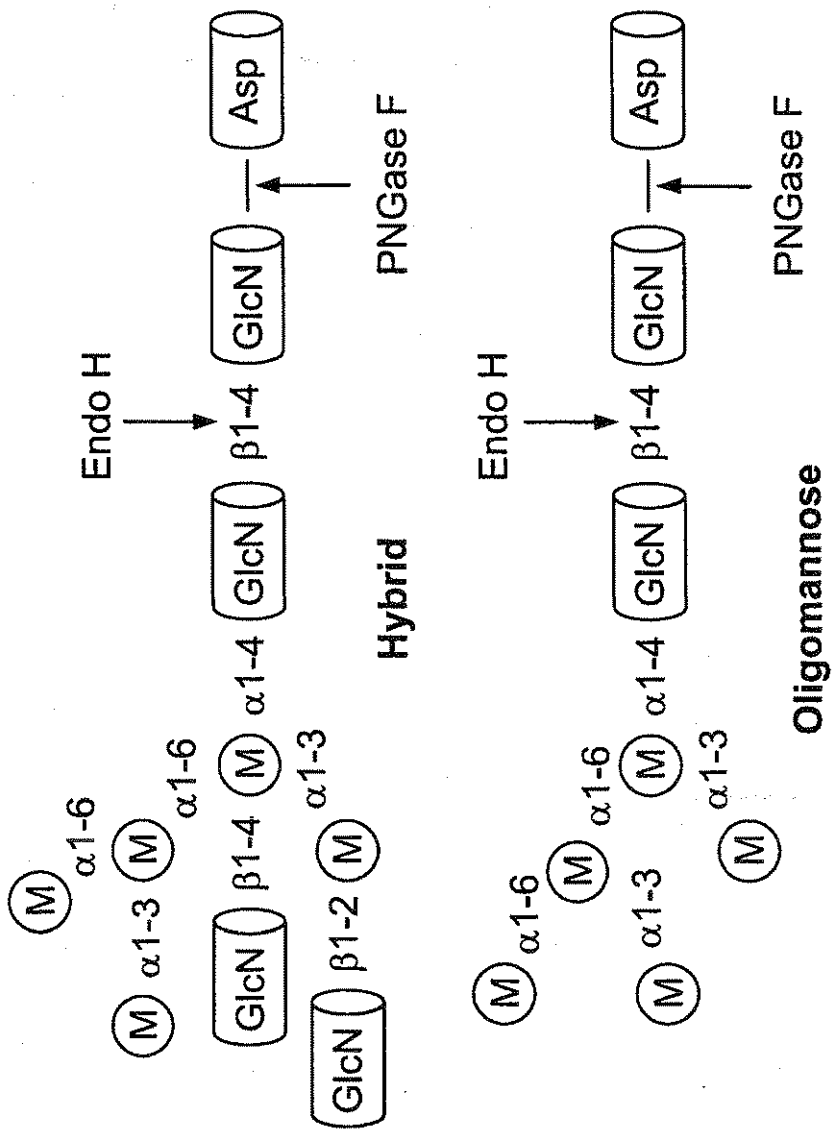

Endo H
PNGase F
Hybrid
Oligomannose
GlcN
Asp
M
α1-6
α1-3
β1-4
β1-2

FIG. 3D