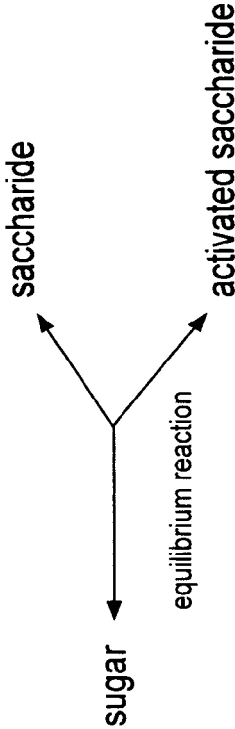
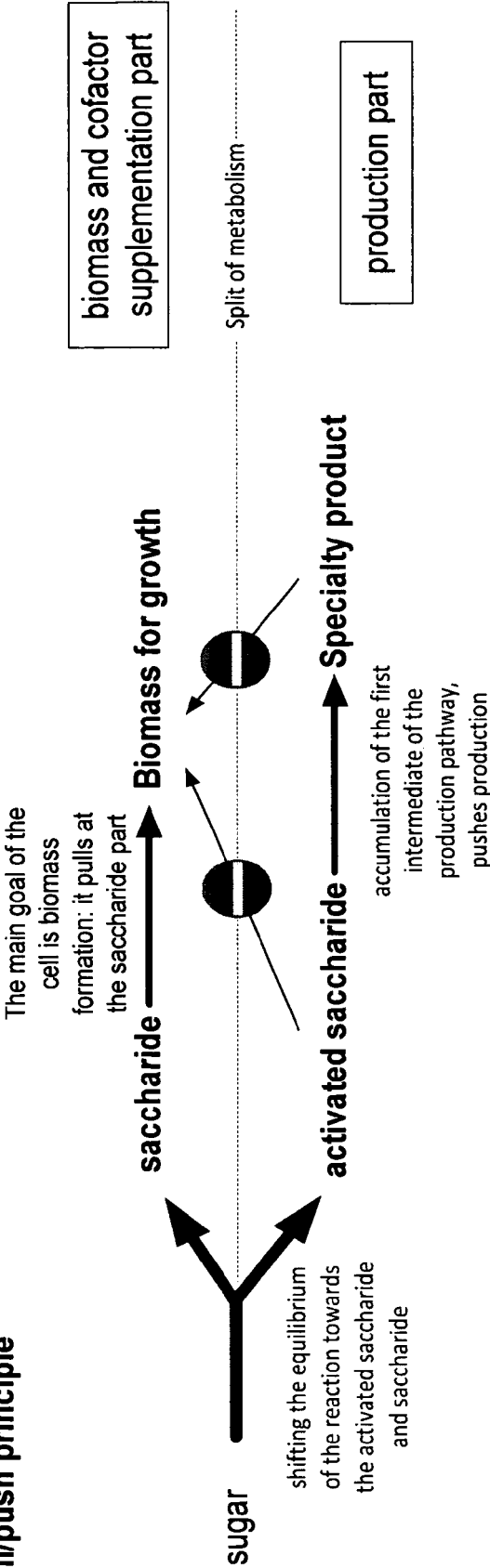


Figure 1

(A) Equilibrium reaction



(B) Pull/push principle



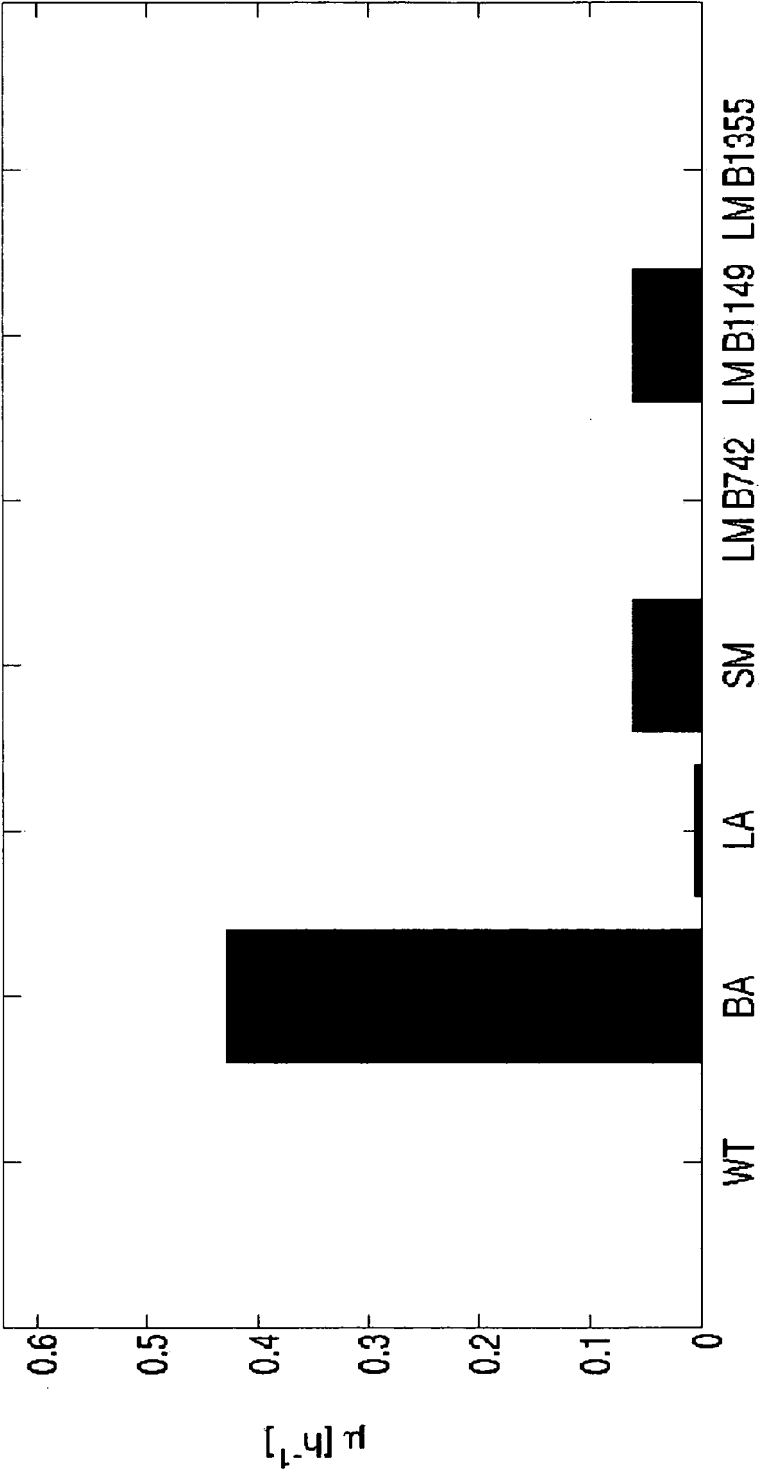


Figure 2

Figure 3

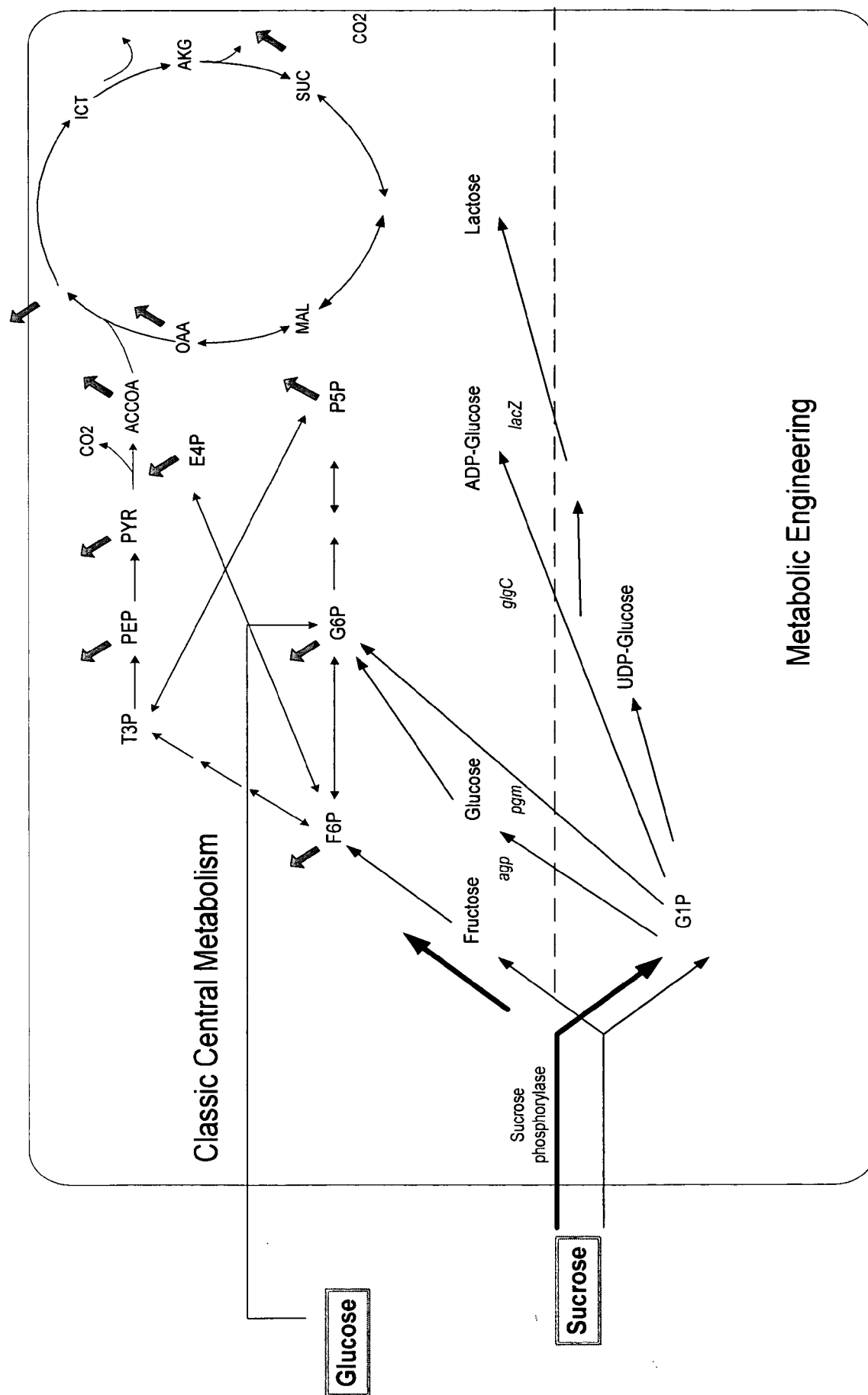


Figure 4

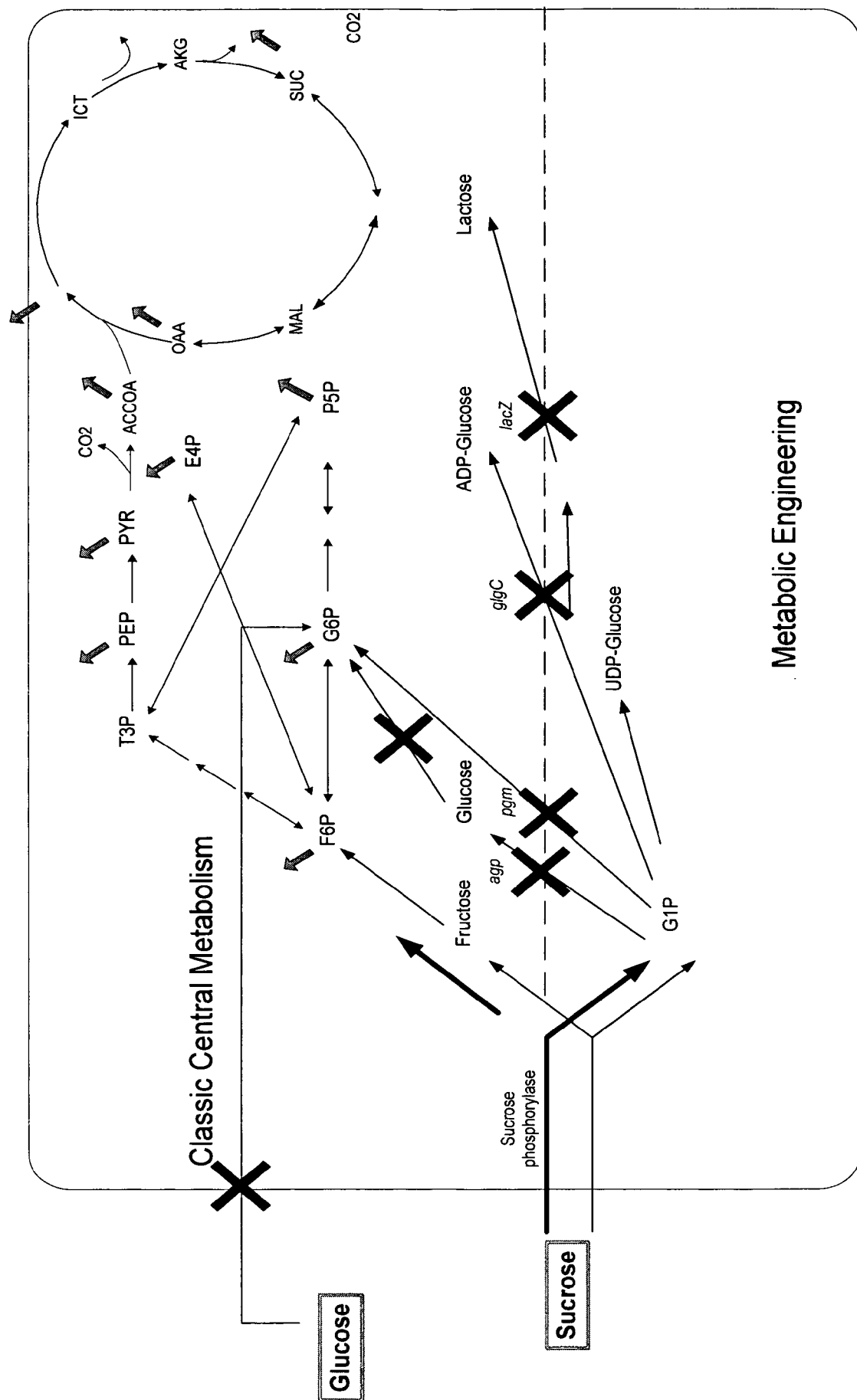


Figure 5

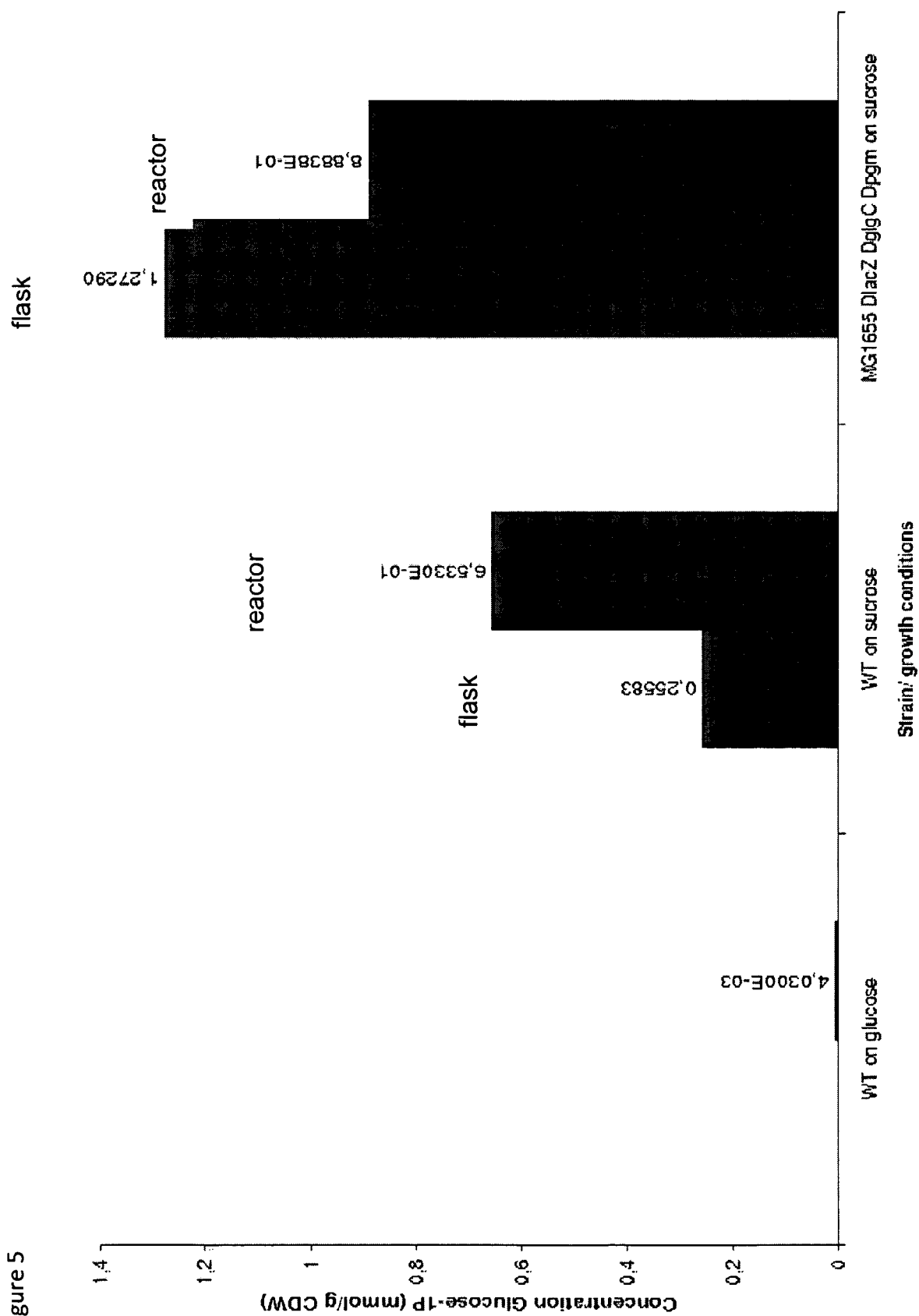


Figure 6

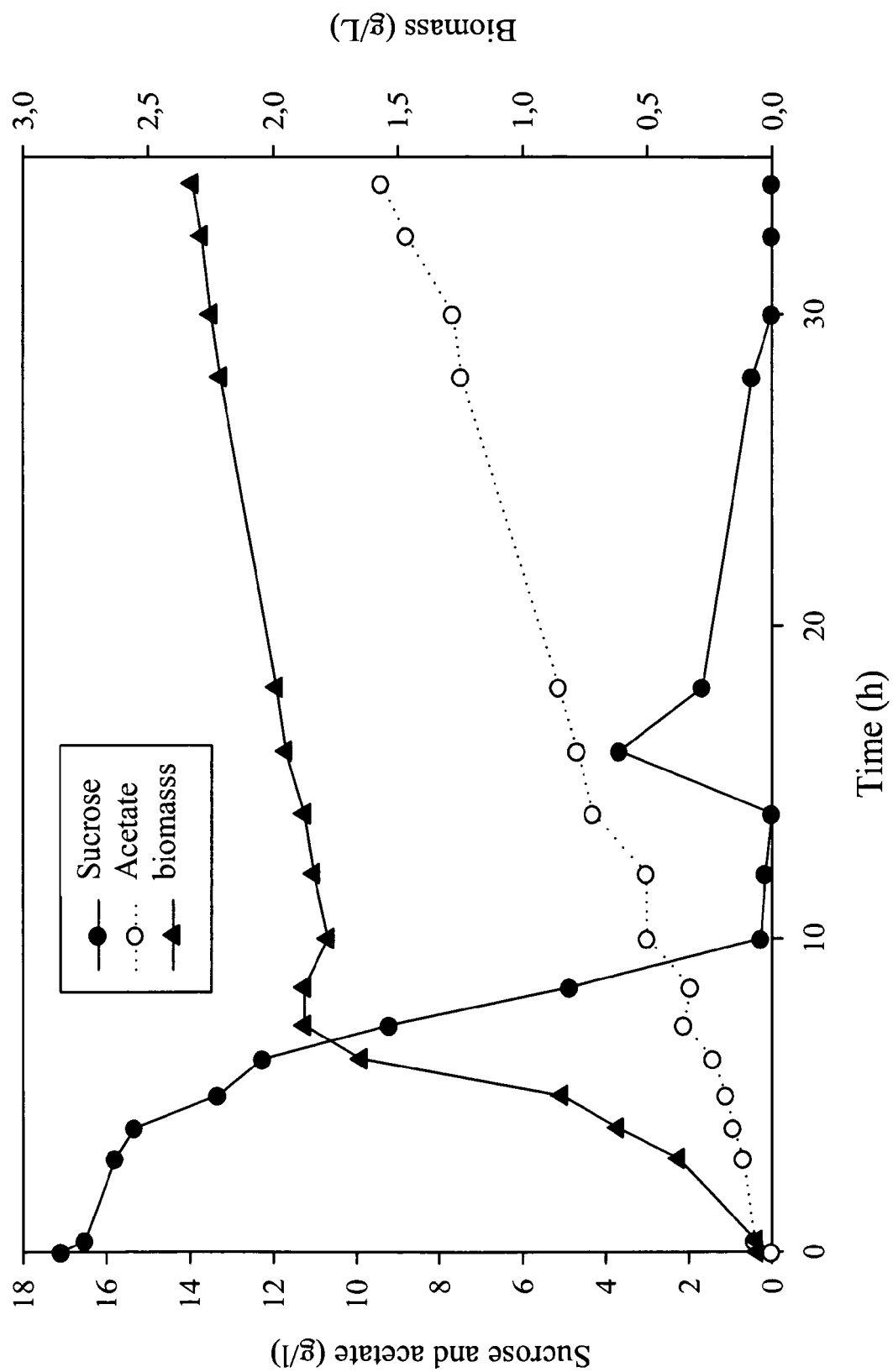


Figure 7

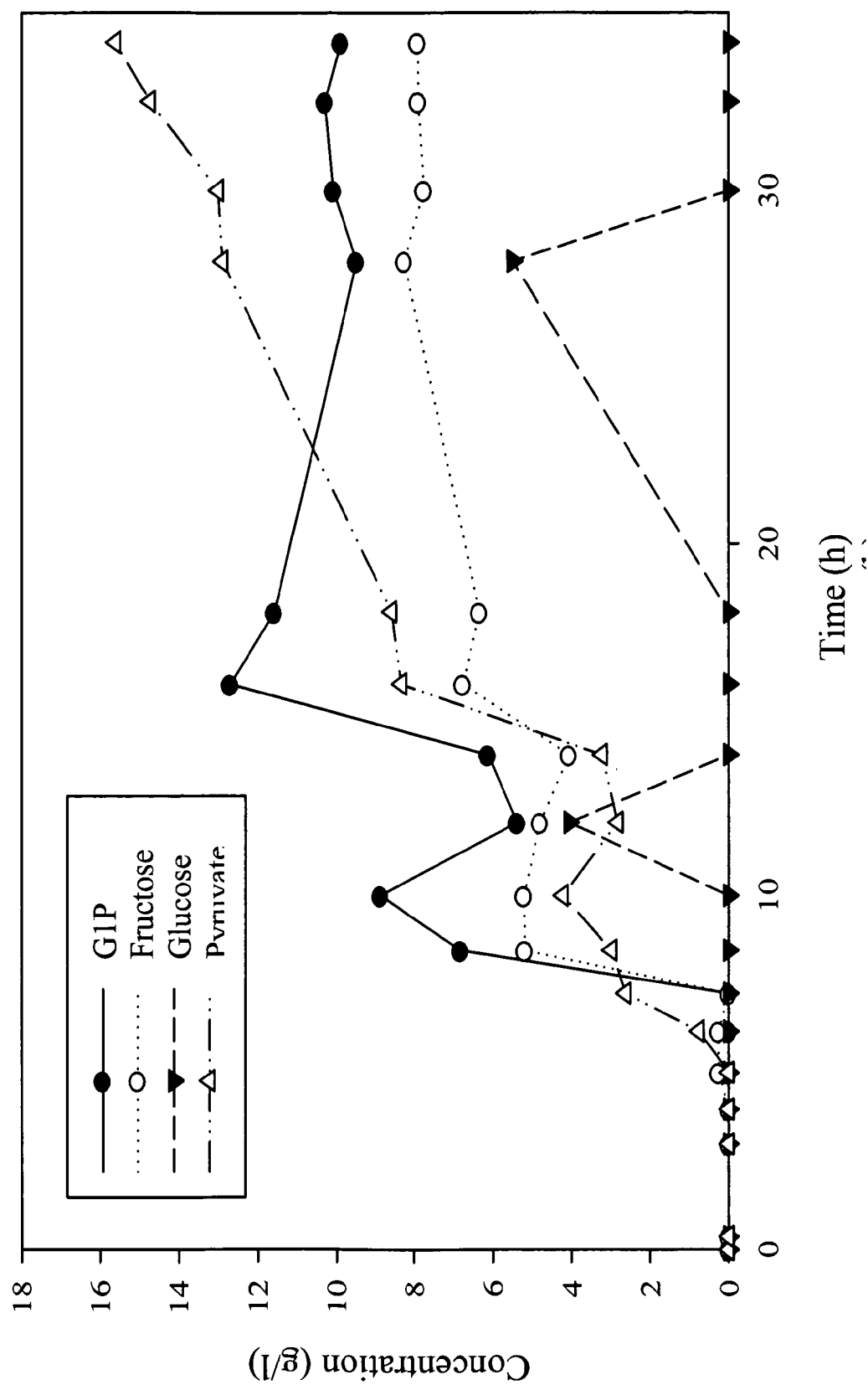
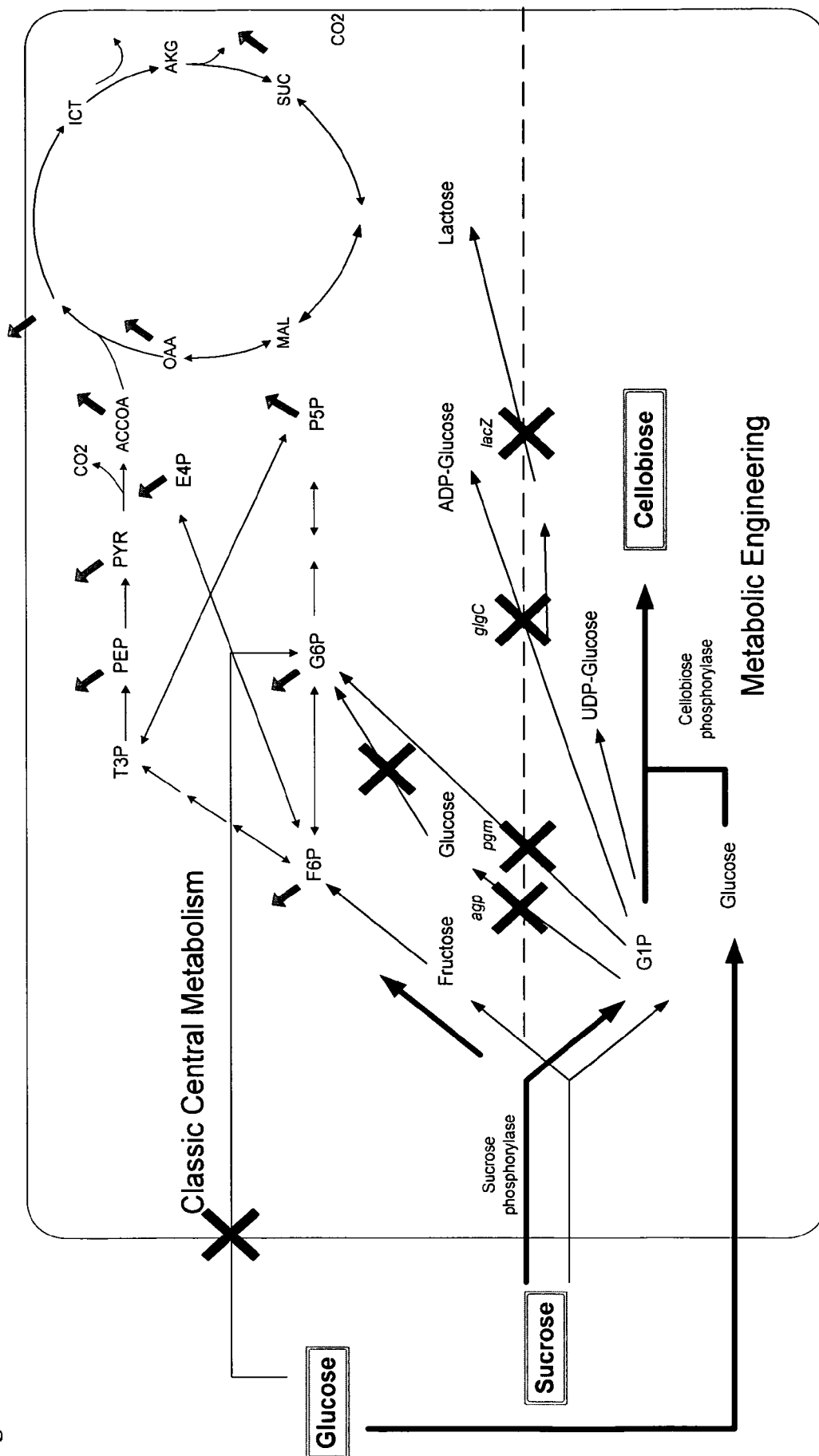
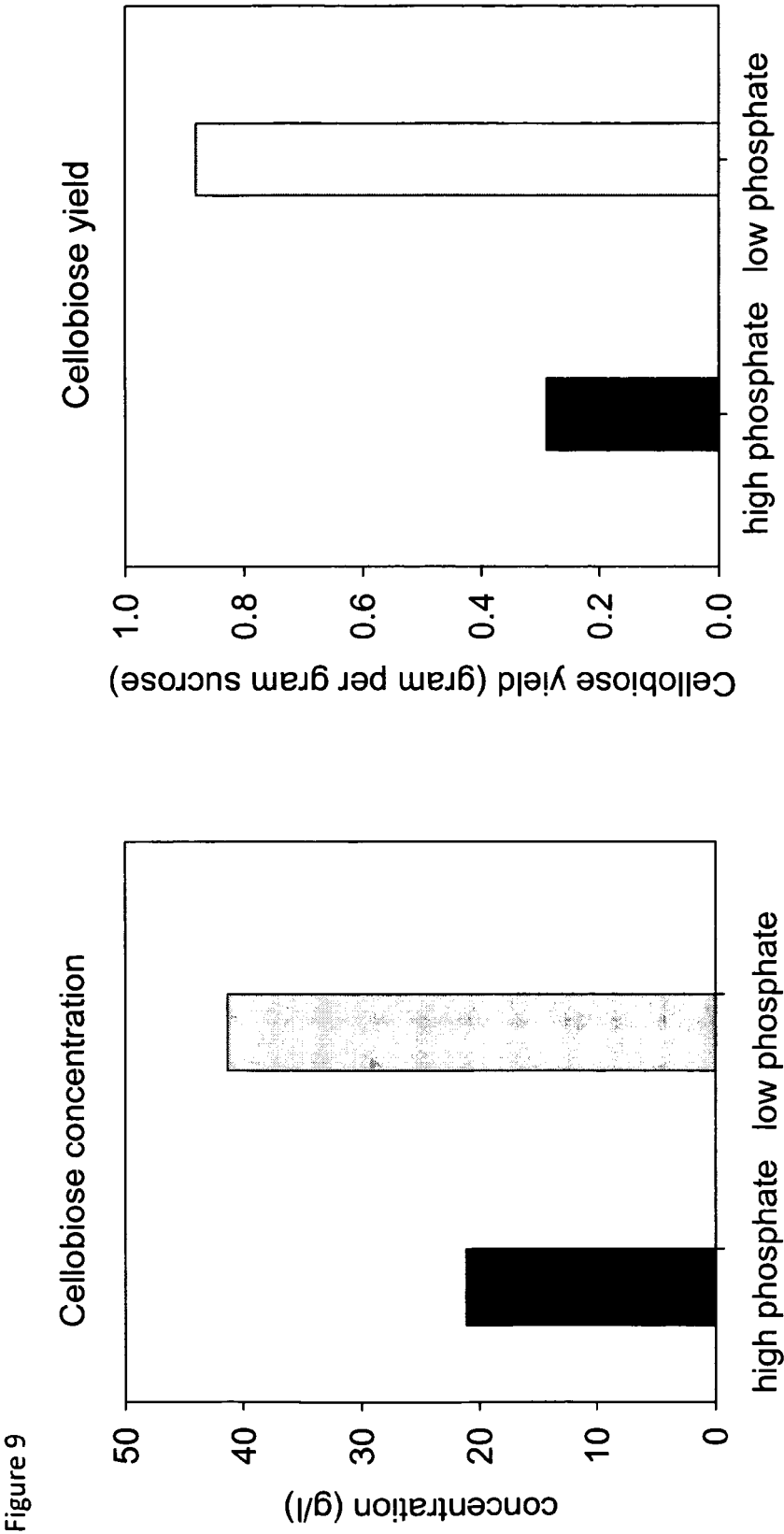


Figure 8





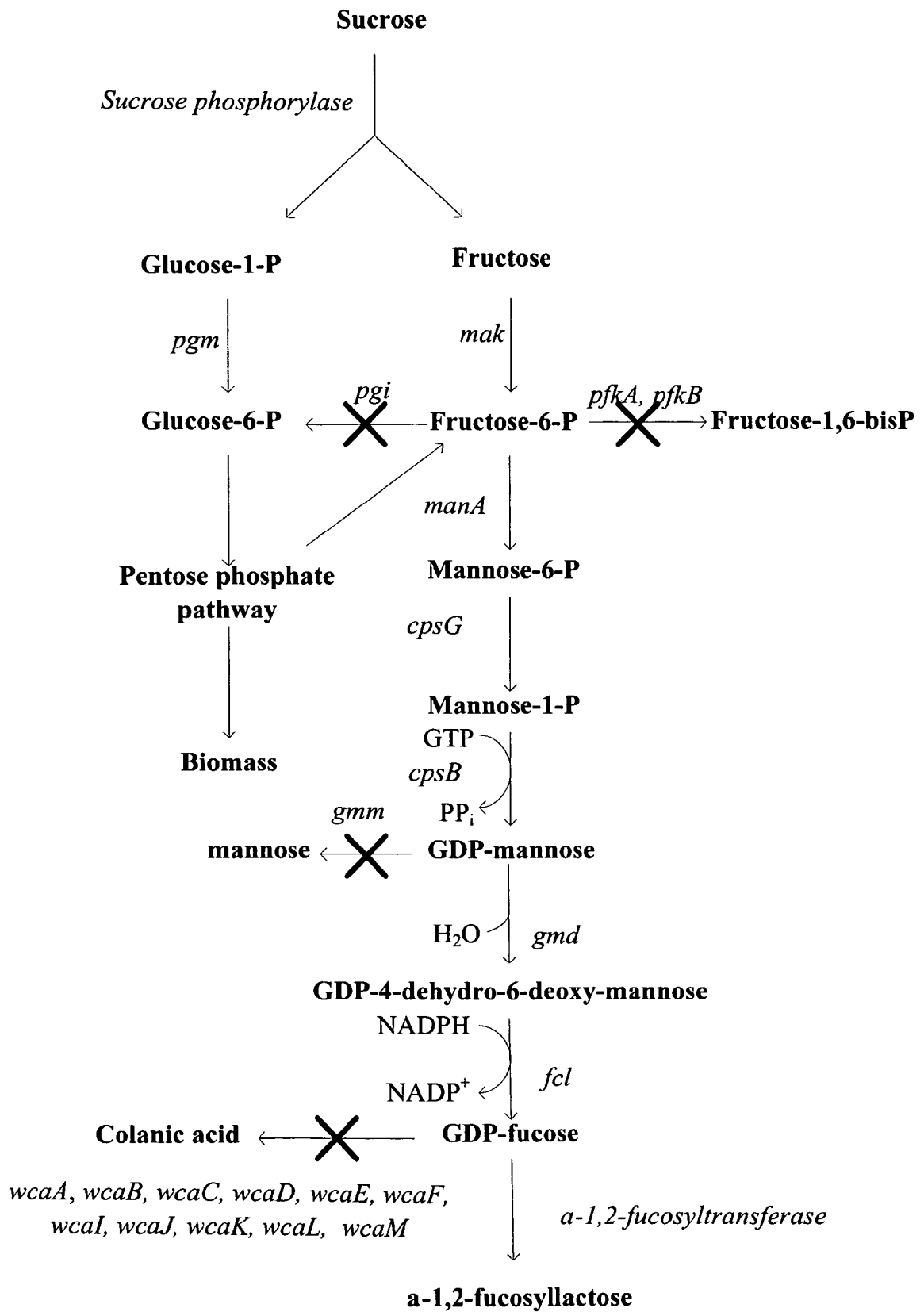


Figure 10

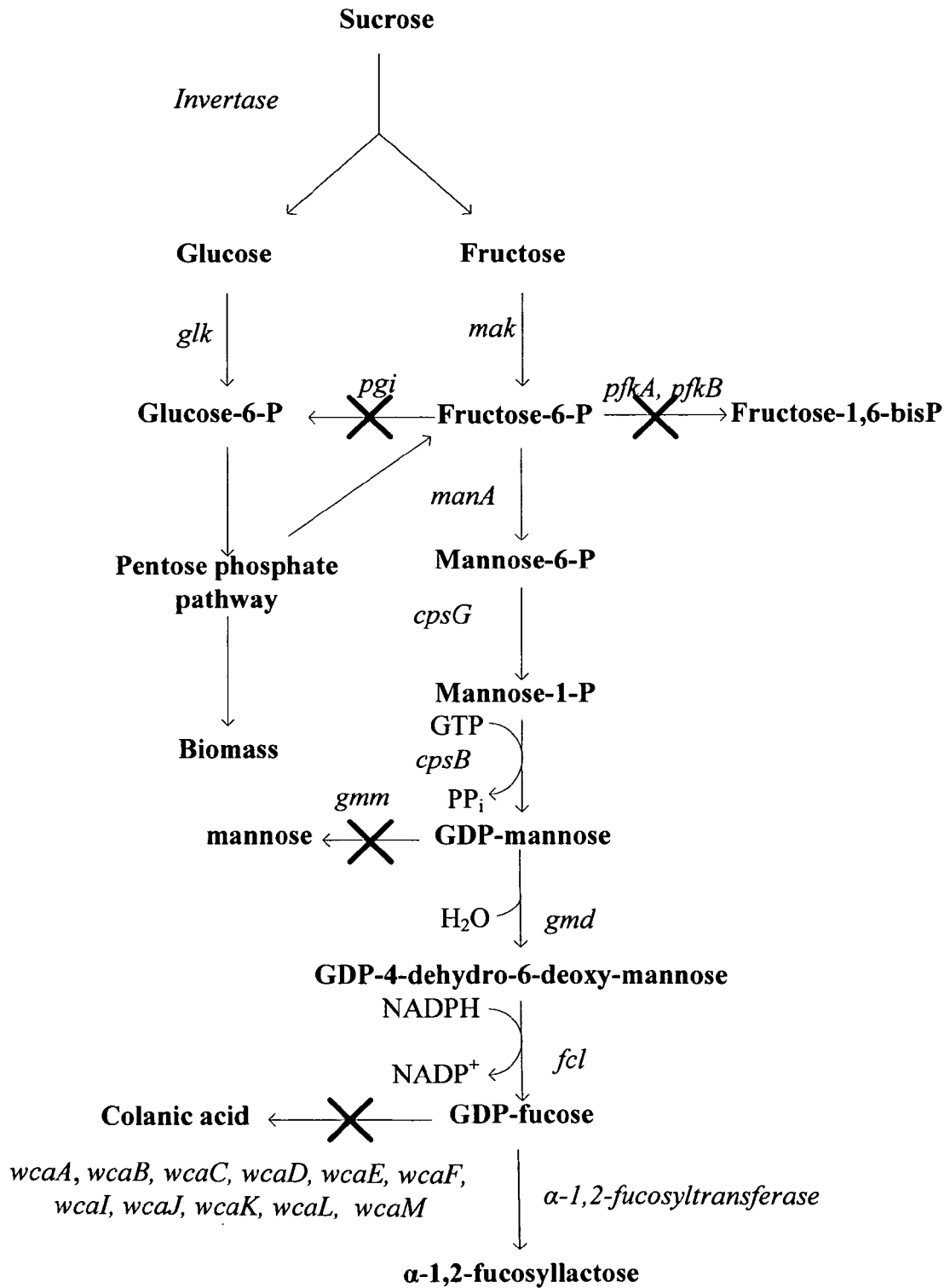


Figure 10 cont.

Figure 11

AGCATGATCGAACACATCATGCAGTCGATGCAATTCCCGGCGGAATTGATTGAGAAGG
TTTGCGGAACCTATCTAAAACGTTGCAGACAAAGGACAAAGCAATGGCAATCCACAATC
GTGCAGGCCAACCTGCACAACAGAGTGATTTGATTAAACGTCGCCCAACTGACGGCGCA
ATATTATGTACTGAAACCAGAAGCAGGGAATGCGGAGCACGCGGTGAAATTCGGTACT
TCCGGTCACCGTGGCAGTGCAGCGCGCCACAGCTTTAACGAGCCGCACATTCTGGCGA
TCGCTCAGGCAATTGCTGAAGAACGTGCGAAAAACGGCATCACTGGCCCTTGCTATGT
GGGTAAAGATACTCACGCCCTGTCCGAACCTGCATTCAATTCGGTTCTGGAAGTGCTG
GCAGCGAACGGCGTTGATGTCAATTGTGCAGGAAAACAATGGCTTCACCCCGACGCCTG
CCGTTTCCAATGCCATCCTGGTTCACAATAAAAAAGGTGGCCCGCTGGCAGACGGTAT
CGTGATTACACCGTCCCATAACCCGCCGGAAGATGGTGGAATCAAATACAATCCGCCA
AATGGTGGCCCGGCTGATACCAACGTCACTAAAGTGGTGGAAGACAGGGCCAACGCAC
TGCTGGCCGATGGCCTGAAAGGCGTGAAGCGTATCTCCCTCGACGAAGCGATGGCATC
CGGTCATGTGAAAGAGCAGGATCTGGTGCAGCCGTTCTGGAAGGTCTGGCCGATATC
GTTGATATGGCCGCGATTGAGAAAGCGGGCCTGACGCTGGGCGTTGATCCGCTGGGCG
GTTCCGGTATCGAATACTGGAAGCGTATTGGCGAGTATTACAACCTCAACCTGACTAT
CGTTAACGATCAGGTCGATCAAACCTTCCGCTTTATGCACCTTGATAAAGACGGCGCG
ATCCGTATGGACTGCTCCTCCGAGTGTGCGATGGCGGGCCTGCTGGCACTGCGTGATA
AGTTCGATCTGGCGTTTGCTAACGACCCGGATTATGACCGTCACGGTATCGTCACTCC
GGCAGGTTTGATGAATCCGAACCACTACCTGGCGGTGGCAATCAATTACCTGTTCCAG
CATCGTCCGCAGTGGGGCAAAGATGTTGCCGTCCGTAAAACGCTGGTTTCATCTGCGA
TGATCGACCGTGTGGTCAACGACTTGGGCCGTAAACTGGTAGAAGTCCCGGTAGGTTT
CAAATGGTTTGTGATGGTCTGTTGACGGCAGCTTCGGCTTTGGCGGCGAAGAGAGT
GCAGGGGCTTCCTTCCTGCGTTTCGACGGCAGCCGTGGTCCACCGACAAAGACGGCA
TCATCATGTGTCTGCTGGCGGCGGAAATCACCGCTGTCACCGGTAAGAACCCGCAGGA
ACACTACAACGAACTGGCAAAACGCTTTGGTGCGCCGAGCTACAACCGTTTGCAGGCA
GCTGCGACTTCCGCACAAAAGCGGGCGCTGTCTAAGCTGTCTCCGGAAATGGTGAGCG
CCAGCACCCCTGGCAGGTGACCCGATCACCGCGCGCCTGACTGCTGCTCCGGGCAACGG
TGCTTCTATTGGCGGTCTGAAAGTGATGACTGACAACGGCTGGTTCGCCGCGCGTCCG
TCAGGCACGGAAGACGCATATAAGATCTACTGCGAAAGCTTCTCGGTGAAGAACATC
GCAAGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTA
AACACATTTAATAAAAAAAGGGCGGTGCAAGATCGCCCTTTTTTACGTATGACAAAC
ACAGAATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGAT

Figure 12

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAA
TCAGACCAAGCCGAAACATGTGCCAGGCACGCCGTATTGGGTGATCACCAACA
CCAACACCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAA
TTCCCGGCGGAATTGATTGAGAAGGTTTGCGGAACCTATCTAAAACGTTGCAGA
CAAAGGACAAAGCA**GTGTAGGCTGGAGCTGCTTCGAAGTTCCTATACTTTCTA**
GAGAATAGGAACTTCGGAATAGGAACTAAGGAGGATATTCATATGACACATTT
AATAAAAAAAGGGCGGTGCAAGATCGCCCTTTTTTACGTATGACAAACACAG
AATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGATGGTGCAATATATTG
AATTTAAGCGATTTTGTAGGCCGGATAAGGCGTTCACGCCGCATCCGGCAAAA
ACAACGAACACTTTGTCAACAACTGAGTAGC

Figure 13

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAATCA
GACCAAGCCGAAACATGTGCCAGGCACGCCGTATTGGGTGATCACCAACACCAACA
CCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAATTCCCGGCG
GAATTGATTGAGAAGGTTTGCGGAACATCTAAAACGTTGCAGACAAAGGACAAAG
CAGTGTAGGCTGGAGCTGCTTCGAAGTTCCTATACTTTCTAGAGAATAGGAAC TTC
GGAATAGGAACTAAGGAGGATATTCATATGGACCGATATCCCGGGCGGCCGCTTCA
TTTATAAATTTCTTGACATTTTGGAAATAGATGTGATATAATGTGTACATATCCATG
GCGGCCGCTCTAGAAGAAGCTTGGGATCCGTCGACCTCGAATTCGGAGGAAACAAA
GATGGGGGGTTCTCATCATCATCATCATGGTATGGCTAGCATGAGTAAAGGAG
AAGAACTTTTCACTGGAGTTGTCCCAATTCCTTGTGAATTAGATGGTGATGTTAAT
GGGCACAAATTTTCTGTCAAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAACT
TACCCTTAAATTTATTTGCACTACTGGAAACTACCTGTTCCATGGCCAACACTTG
TCACTACTTTTCGGGTATGGTGTTCATGCTTTGTCNAGATACCCAGATCATATGAAA
CAGCATGACTTTTTCAAGAGTGCCATGCCC GAAGGTATGTACAGGAAAGAACTAT
ATTTTTCAAGATGACGGGAACTACAAGACACGTGCTGAAGTCAAGTTTGAAGGTG
ATACCCTTGTTAATAGAATCGAGTTAAAAGGTATTGATTTTAAAGAAGATGGAAAC
ATTCTTGGACACAAATTGGAATACAAC TAACTCACACAATGTATACATCATGGC
AGACAAACAAAAGAATGGAATCAAAGTAACTTCAA AATTAGACACAACATTGAAG
ATGGAAGCGTTCAACTAGCAGACCATTATCAACAAAATACTCCAATTGGCGATGGC
CCTGTCTTTTTACCAGACAACCATTACCTGTCCACACAATCTGCCCTTTTCGAAAGA
TCCCAACGAAAAGAGAGACCACATGGTCCTTCTTGAGTTTGTAACAGCTGCTGGGA
TTACACATGGCATGGATGAACTATACAAATAACTGCAGGTCGACCATATGGGAGAG
CTCCCAACGCGTTGGATGCAGGCATGCAAGCTTGGCTGTTTTGGCGGATGAGAGAA
GATTTTCAGCCTGATACAGATTAAATCAGAACGCAGAAGCGGTCTGATAAAACAGA
ATTTGCCTGGCGGCAGTAGCGCGGTGGTCCCACCTGACCCCATGCCGAAC TCAGAA
GTGAAACGCCGTAGCGCCGATGGTAGTGTGGGGTCTCCCCATGCGAGAGTAGGGAA
CTGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTTCGTTTT
ATCTGTTGTTTGTCTGGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGA
TTTGAACGTTGCGAAGCAACGGCCCCGAGGGTGGCGGGCAGGACGCCCGCCATAAA
CTGCCAGGCATCAAATTAAGCAGAAGGCCATCCTGACGGATGCTACTGCGAAAGCT
TCCTCGGTGAAGAACATCGCAAGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGC
GAAGTTCTGAAAAACGCGTAACTACTGCGAAAGCTTCCTCGGTGAAGAACATCGCA
AGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTAA
ACACATTTAATAAAAAAAGGGCGGTGCGAAGATCGCCCTTTTTTACGTATGACAAA
CACAGAATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGATGGTGCAATATAT
TGAATTTAAGCGATTTTGTAGGCCGATAAGGCGTTCACGCCGCATCCGGCAAAAA
CAACGAACACTTTGTCAACAAACTGAGTAGCTCAAGGAAATCCCA

Figure 14

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAATC
AGACCAAGCCGAAACATGTGCCAGGCACGCCGTATTGGGTGATCACCAACACCAA
CACCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAATTCCCG
GCGGAATTGATTGAGAAGGTTTGCAGAACTATCTAAAACGTTGCAGACAAAGGAC
AAAGCA**ACGAAAGGCTCAGTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTTG**
TCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTG
CGAAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCA
TCAAATTAAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTGGCCAGTGCCA
AGCTTGCATGCAGATTGCAGCATTACACGTCTTGAGCGATTGTGTAGGCTGGAGC
TGCTTCGAAGTTCCTATACTTTCTAGAGAATAGGAACTTCGGAATAGGAACTTCA
AGATCCCCCTCACGCTGCCGCAAGCACTCAGGGCGCAAGGGCTGCTAAAGGAAGCG
GAACACGTAGAAAGCCAGTCCGCAGAAACGGTGCTGACCCCGGATGAATGTCAGC
TACTGGGCTATCTGGACAAGGGAAAACGCAAGCGCAAAGAGAAAGCAGGTAGCTT
GCAGTGGGCTTACATGGCGATAGCTAGACTGGGCGGTTTTATGGACAGCAAGCGA
ACCGGAATTGCCAGCTGGGGCGCCCTCTGGTAAGGTTGGGAAGCCCTGCAAAGTA
AACTGGATGGCTTTCTTGCCGCCAAGGATCTGATGGCGCAGGGGATCAAGATCTG
ATCAAGAGACAGGATGAGGATCGTTTCGCAAGATCCCCCTCACGCTGCCGCAAGCA
CTCAGGGCGCAAGGGCTGCTAAAGGAAGCGGAACACGTAGAAAGCCAGTCCGCAG
AAACGGTGCTGACCCCGGATGAATGTCAGCTACTGGGCTATCTGGACAAGGGAAA
ACGCAAGCGCAAAGAGAAAGCAGGTAGCTTGCAGTGGGCTTACATGGCGATAGCT
AGACTGGGCGGTTTTATGGACAGCAAGCGAACCAGGAAATGCCAGCTGGGGCGCCC
TCTGGTAAGGTTGGGAAGCCCTGCAAAGTAACTGGATGGCTTTCTTGCCGCCAA
GGATCTGATGGCGCAGGGGATCAAGATCTGATCAAGAGACAGGATGAGGATCGTT
TCGCGCGGGACTCTGGGGTTCGAAATGACCGACCAAGCGACGCCCAACCTGCCAT
CACGAGATTTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGT
TTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTC
TCTACTGCGAAAGCTTCCTCGGTGAAGAACATCGCAAGCAGATTGAGAAAGAAGC
GGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTAAACACATTTAATAAAAAAA
GGGCGGTCGCAAGATCGCCCTTTTTTACGTATGACAAACACAGAATTGCCTGATG
CGCTACGCTTATCAGGCCTACGAGGATGGTGCAATATATTGAATTTAAGCGATTT
TGTAGGCCGGATAAGGCGTTCACGCCGCATCCGGCAAAAACAACGAACACTTTGT
CAACAAACTGAGTAGCTCAAGGAAATCCCA

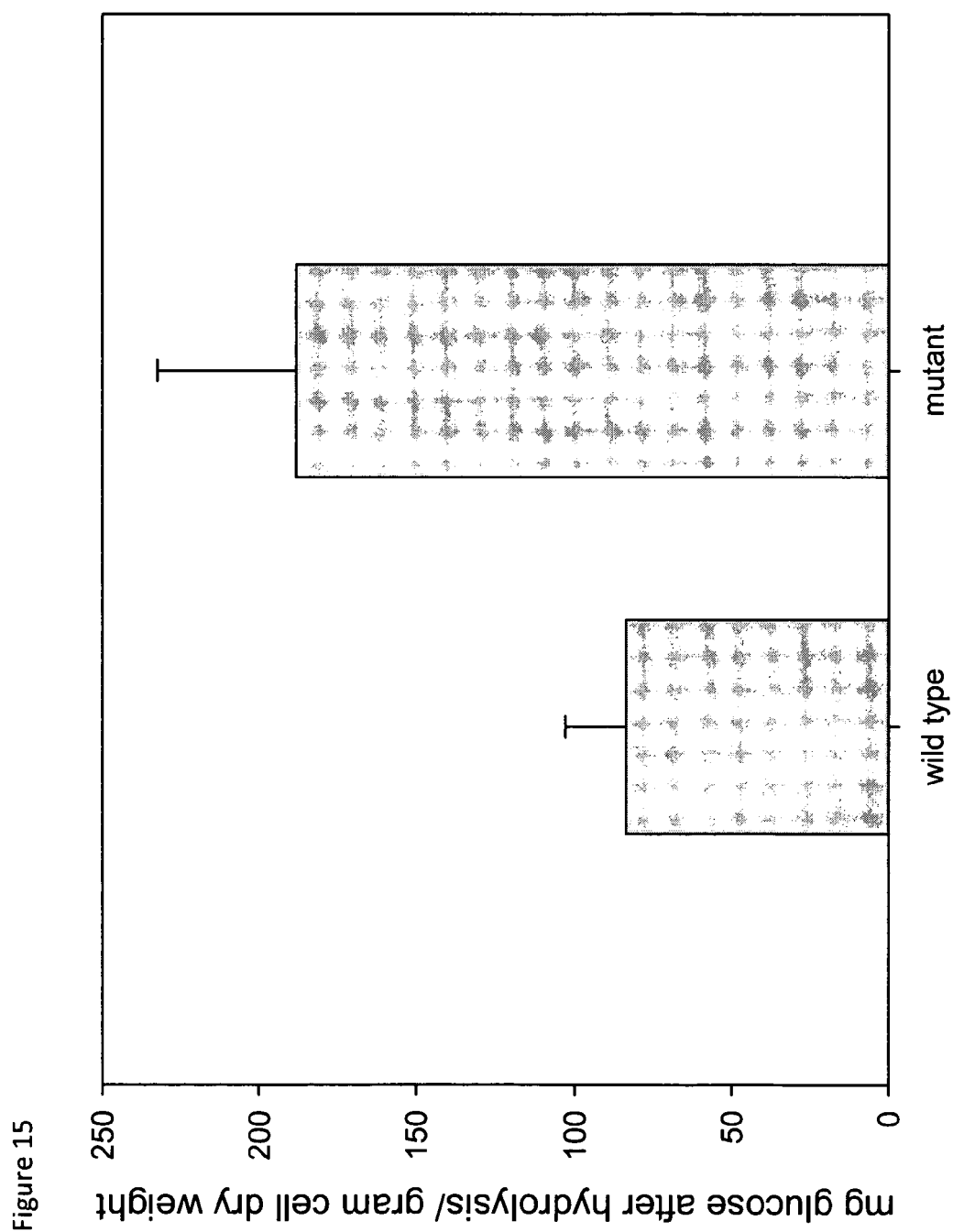


Figure 16

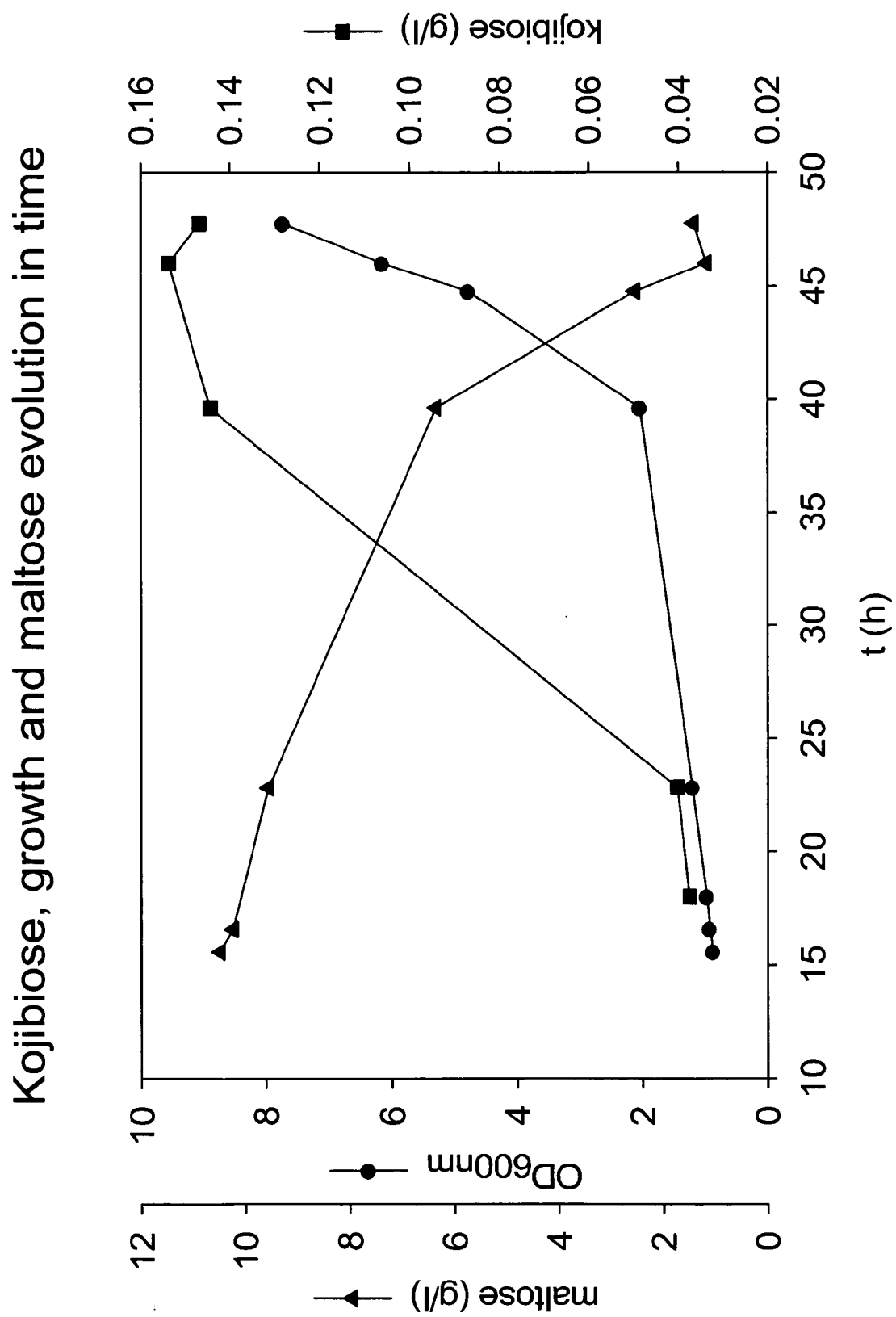


Figure 17

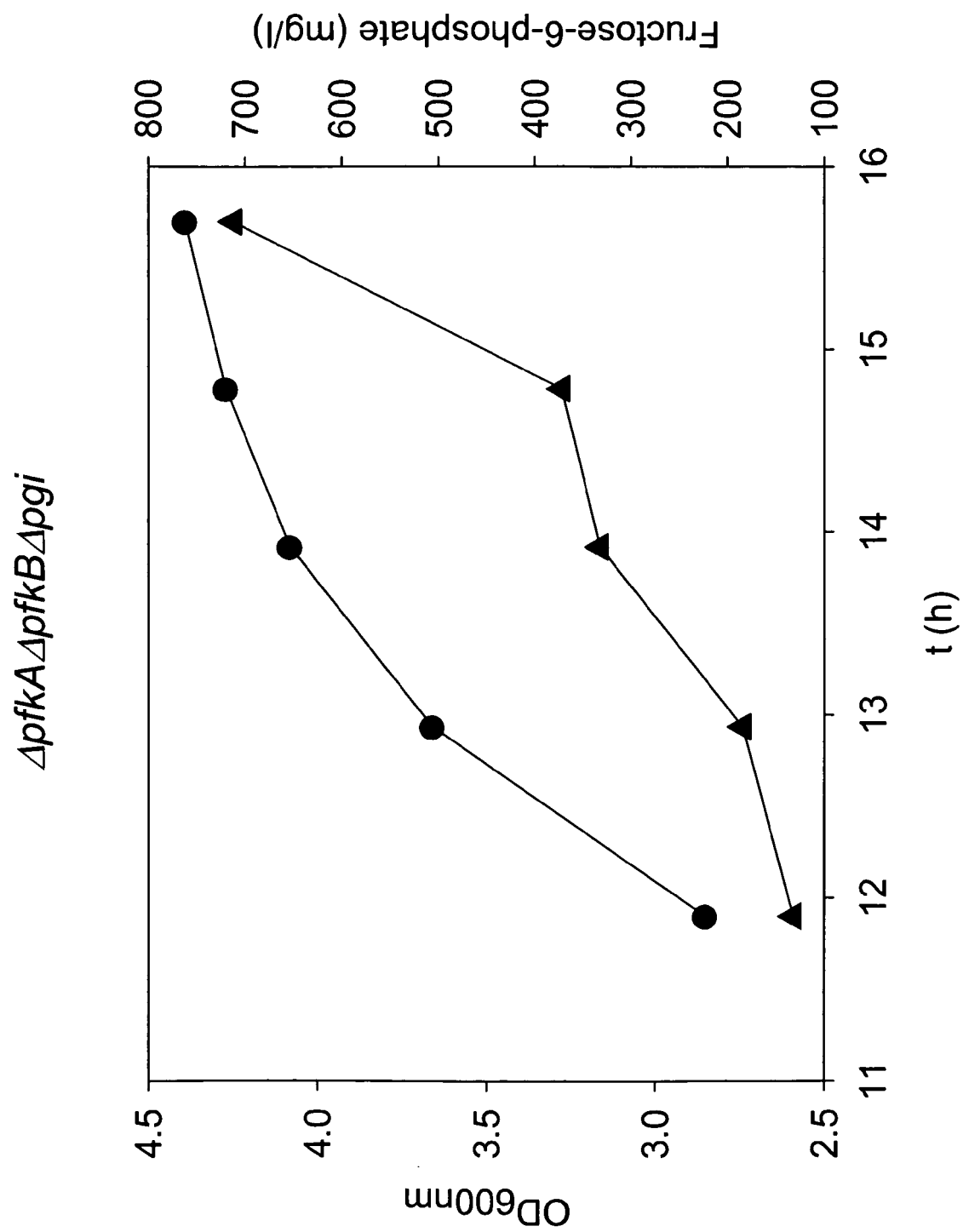


Figure 20

Blanc sample (no GDF-fucose added, immediately measured)

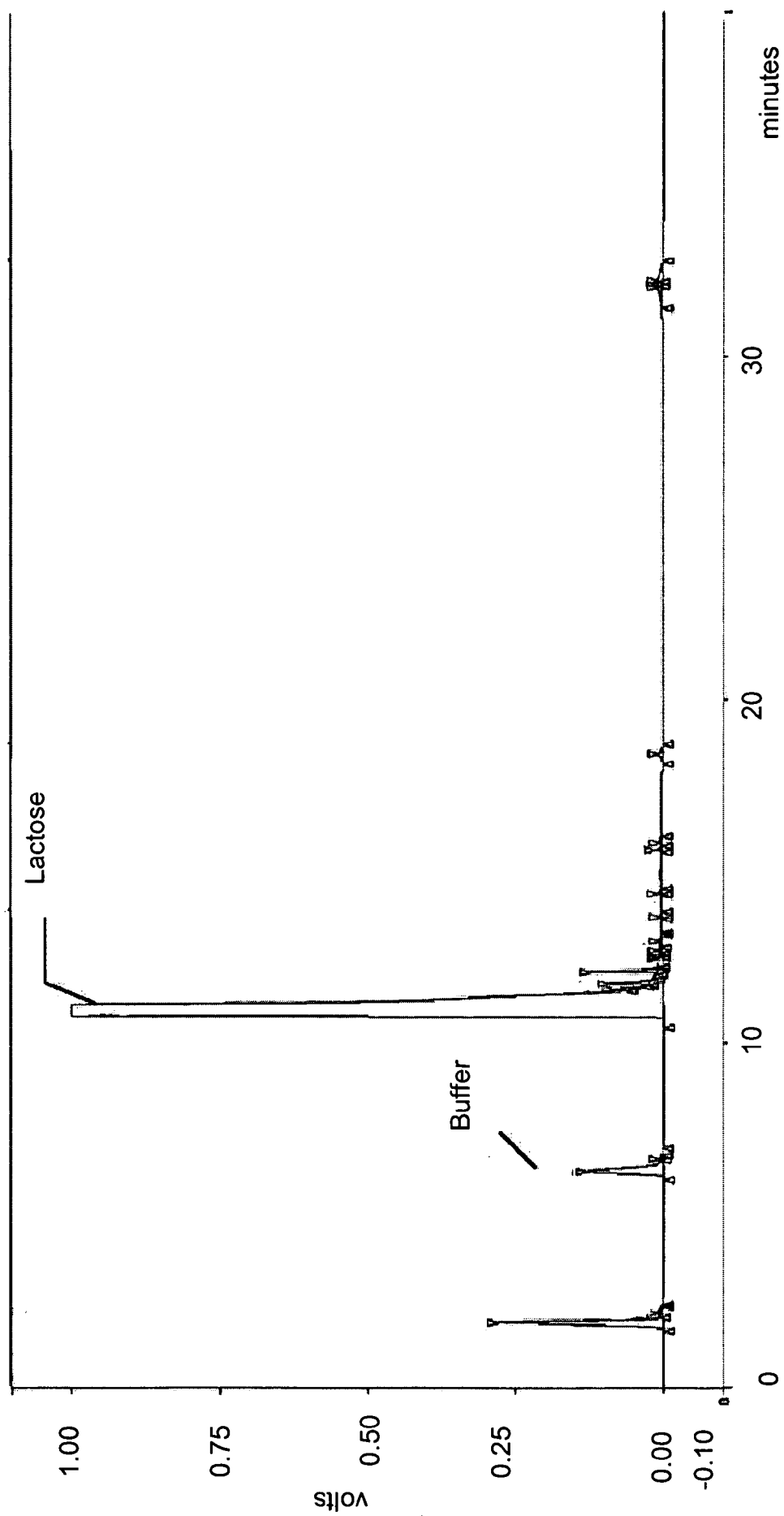


Figure 20 cont.

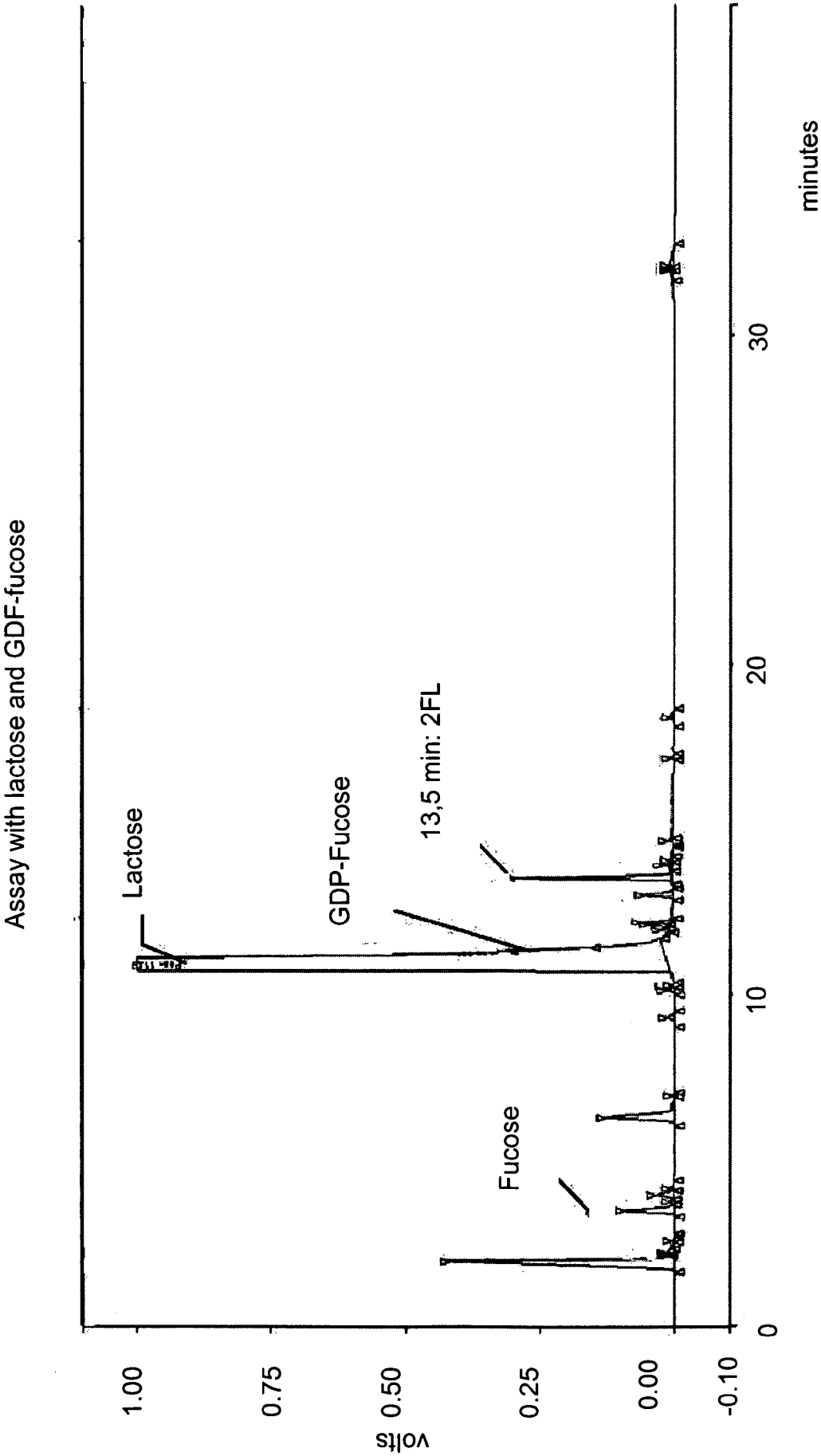


Figure 21

