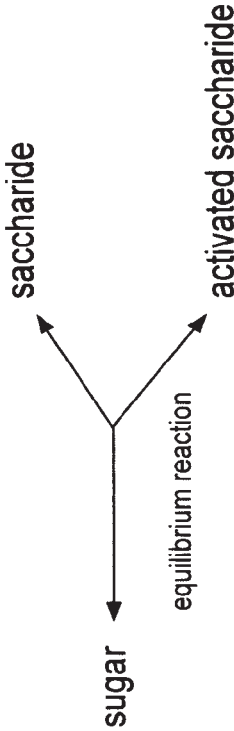
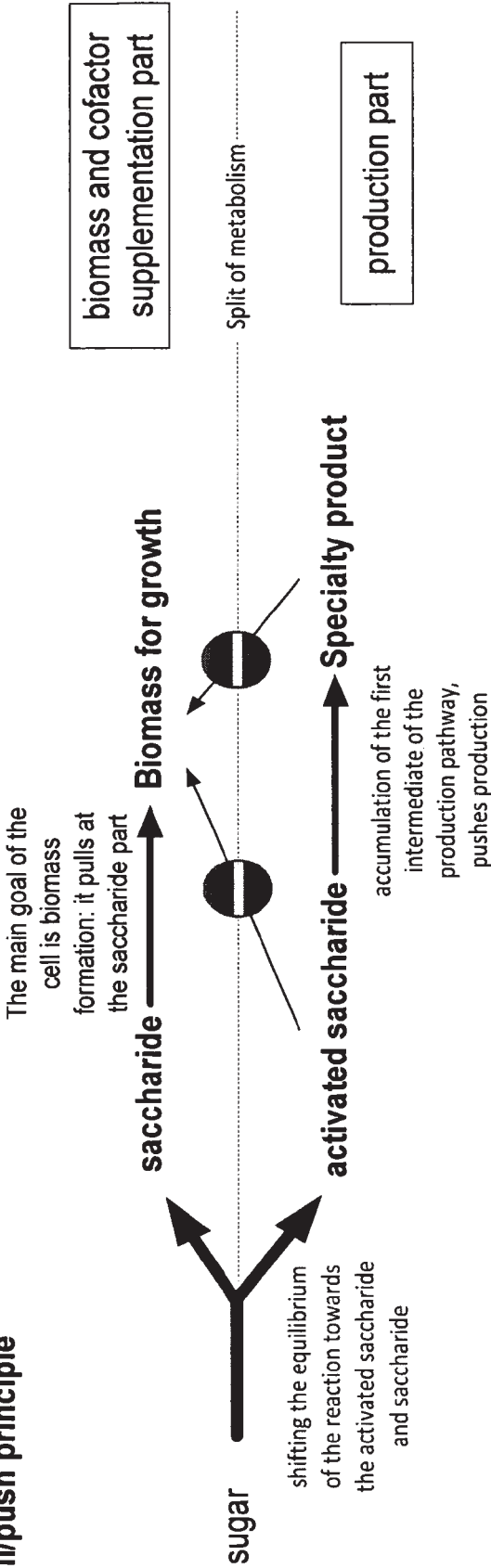


Figure 1

(A) Equilibrium reaction



(B) Pull/push principle



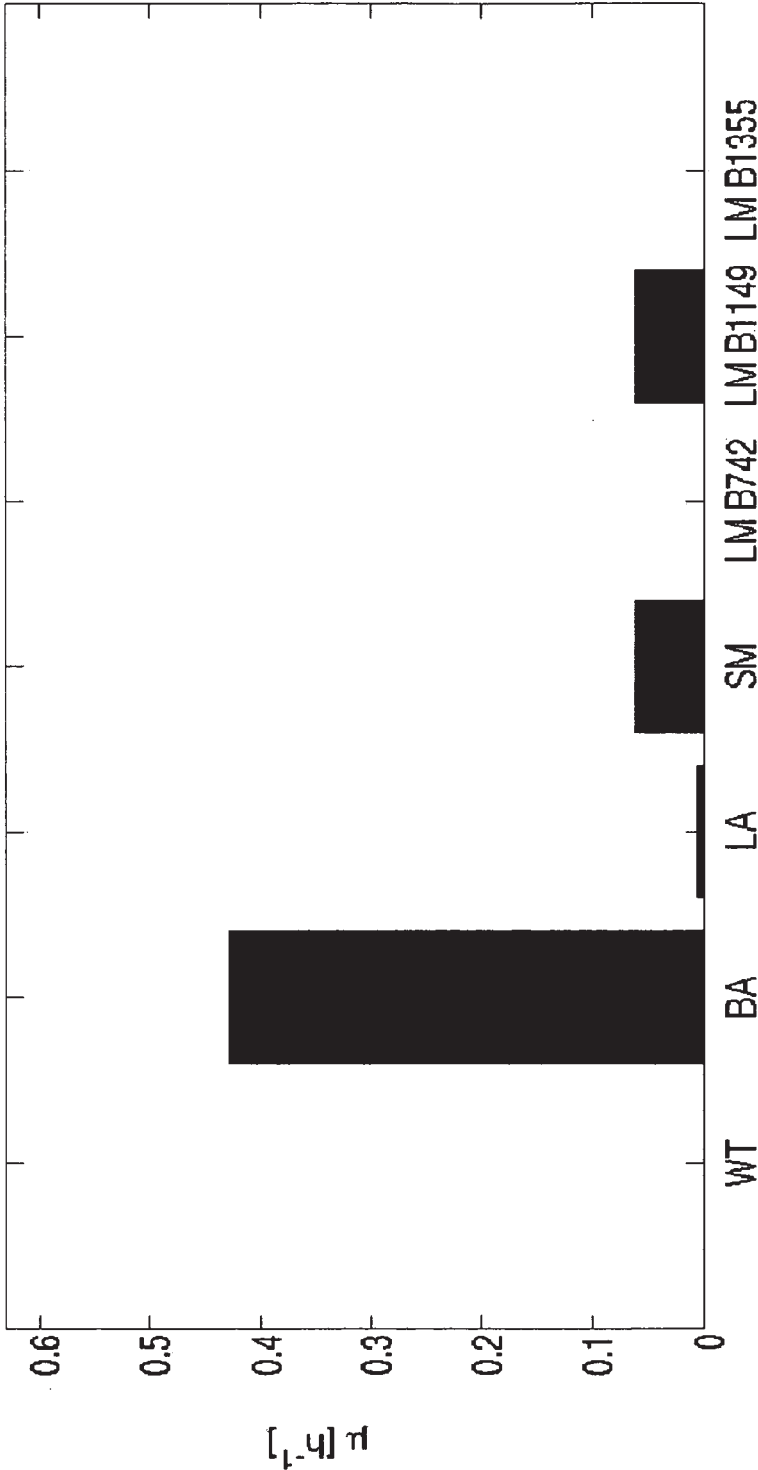


Figure 2

Figure 3

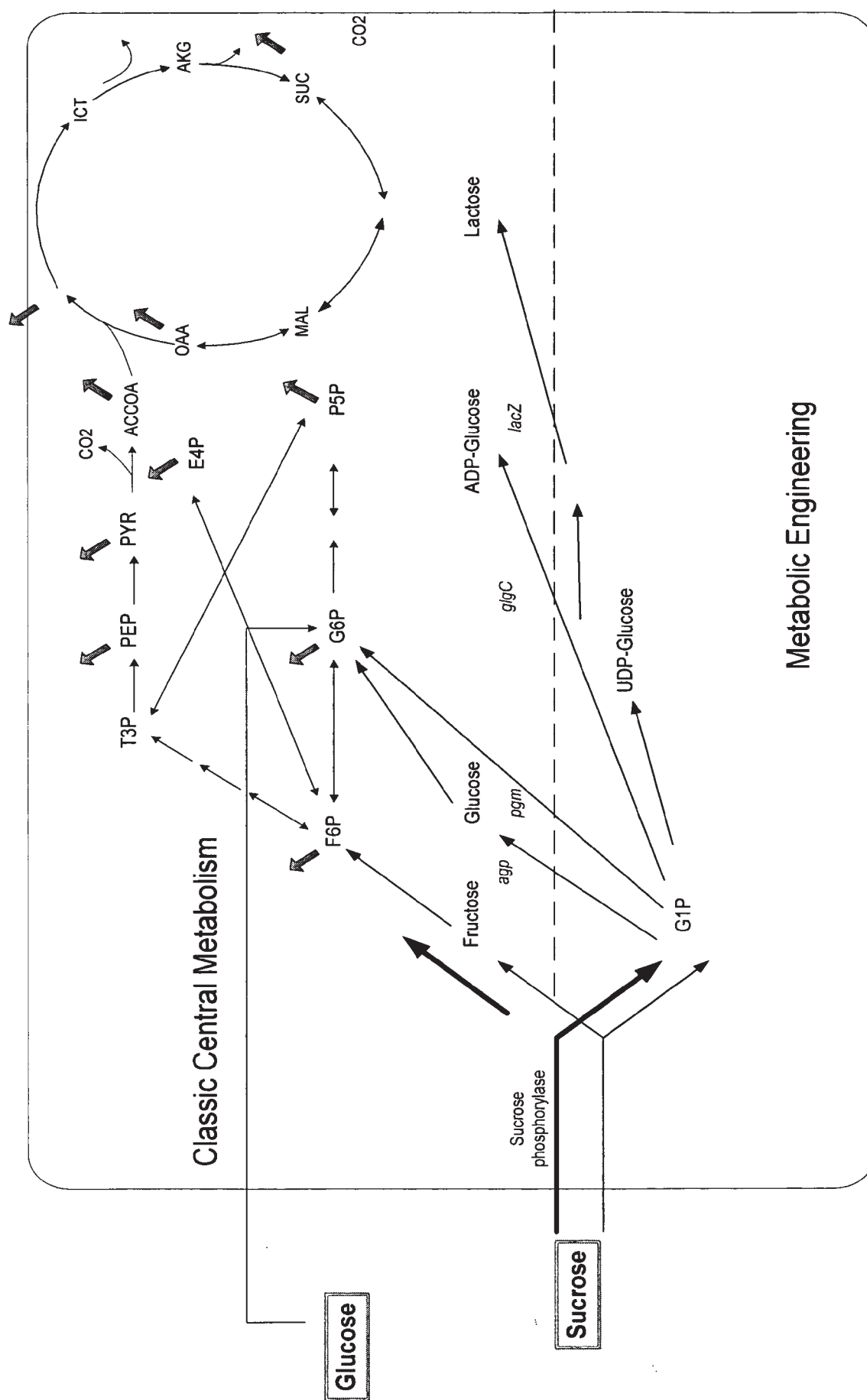
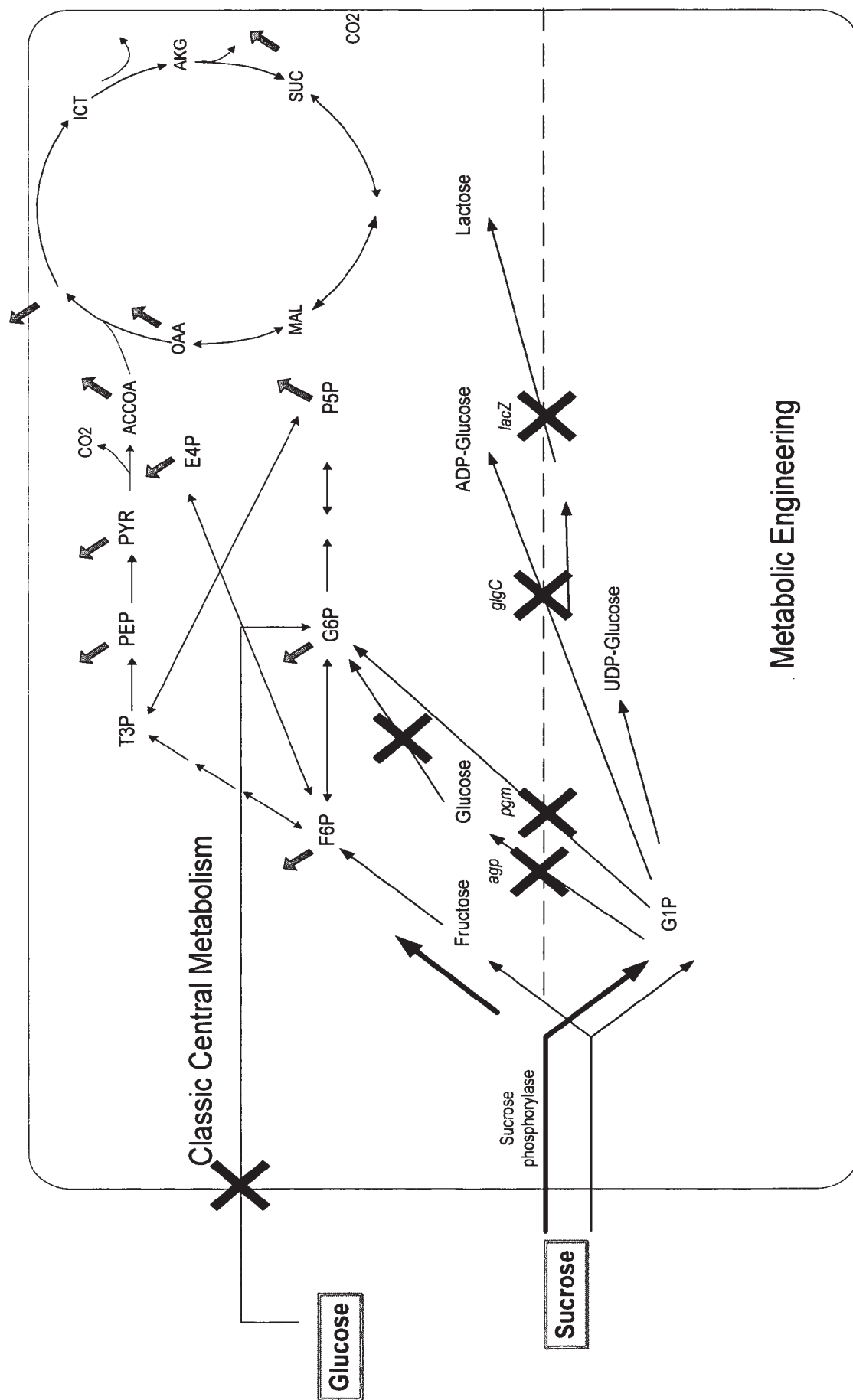


Figure 4



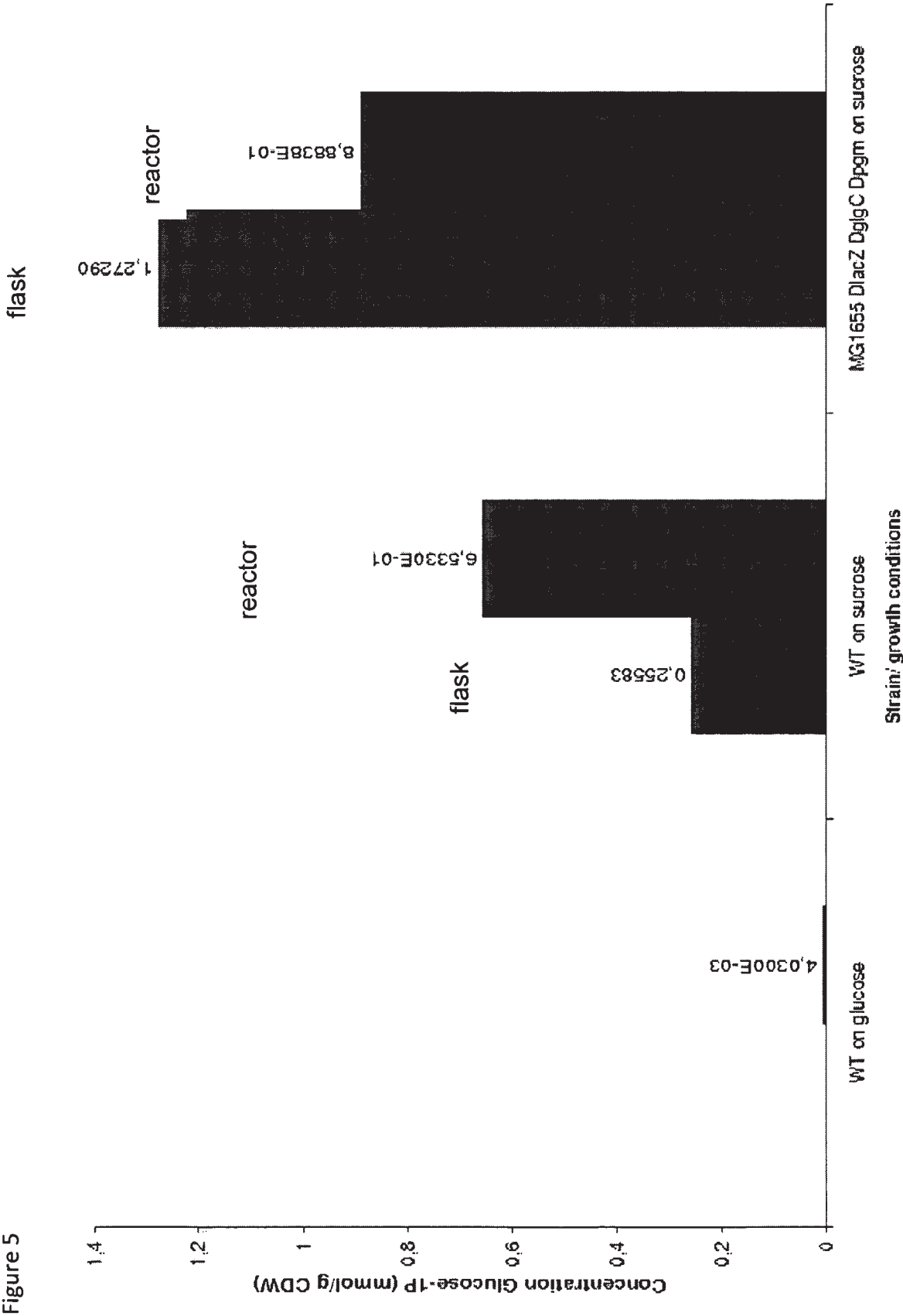


Figure 6

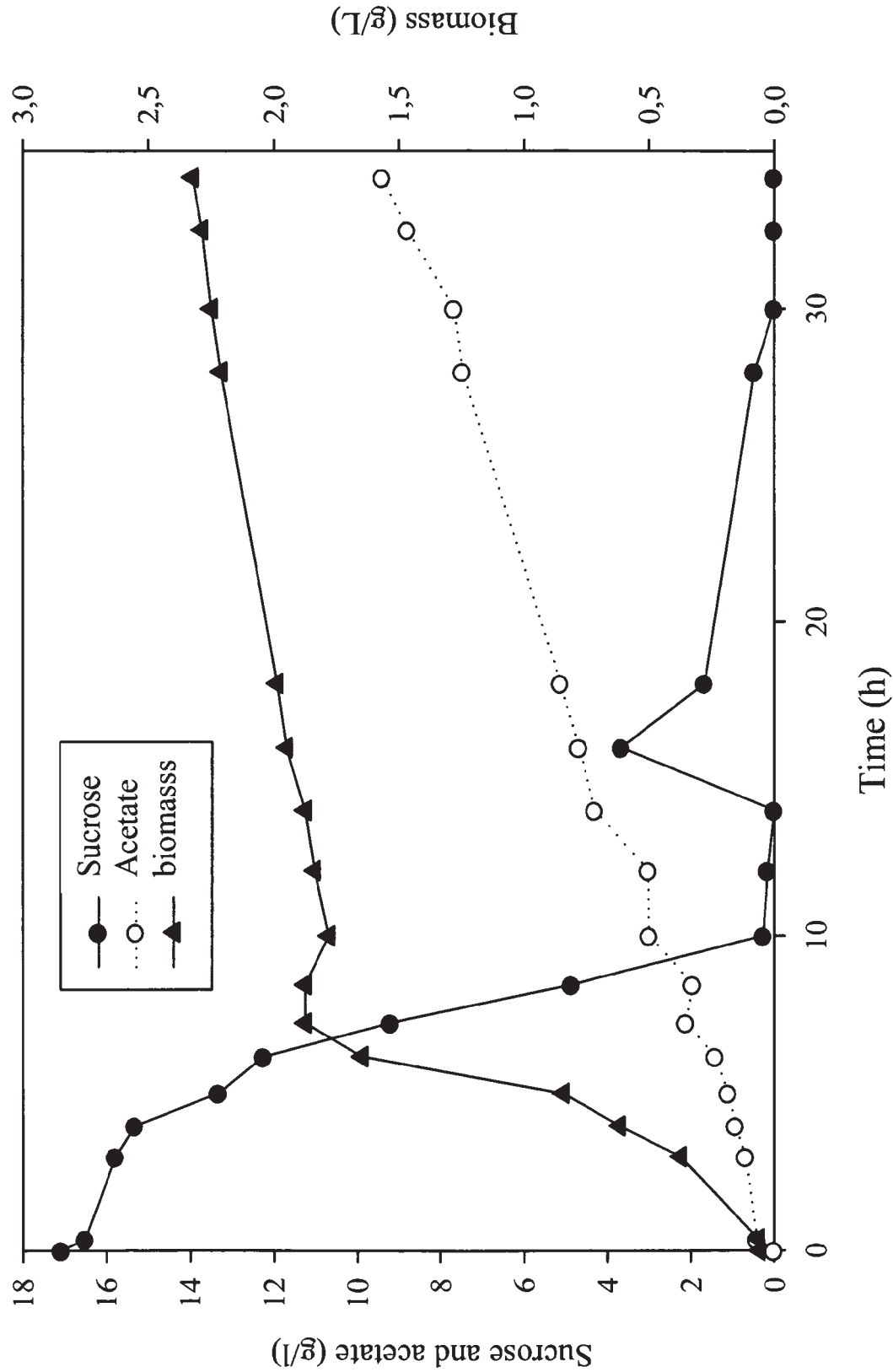
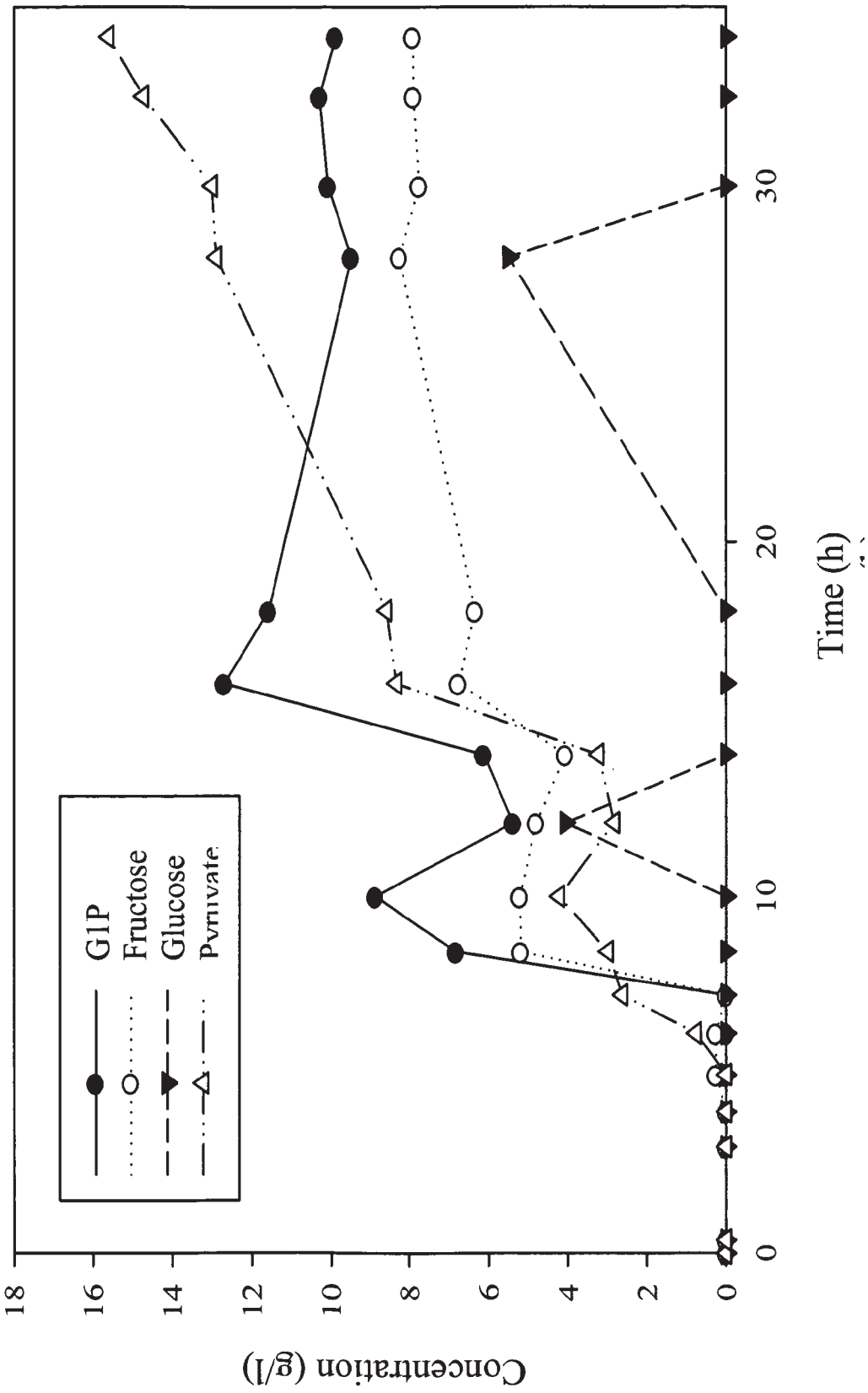


Figure 7



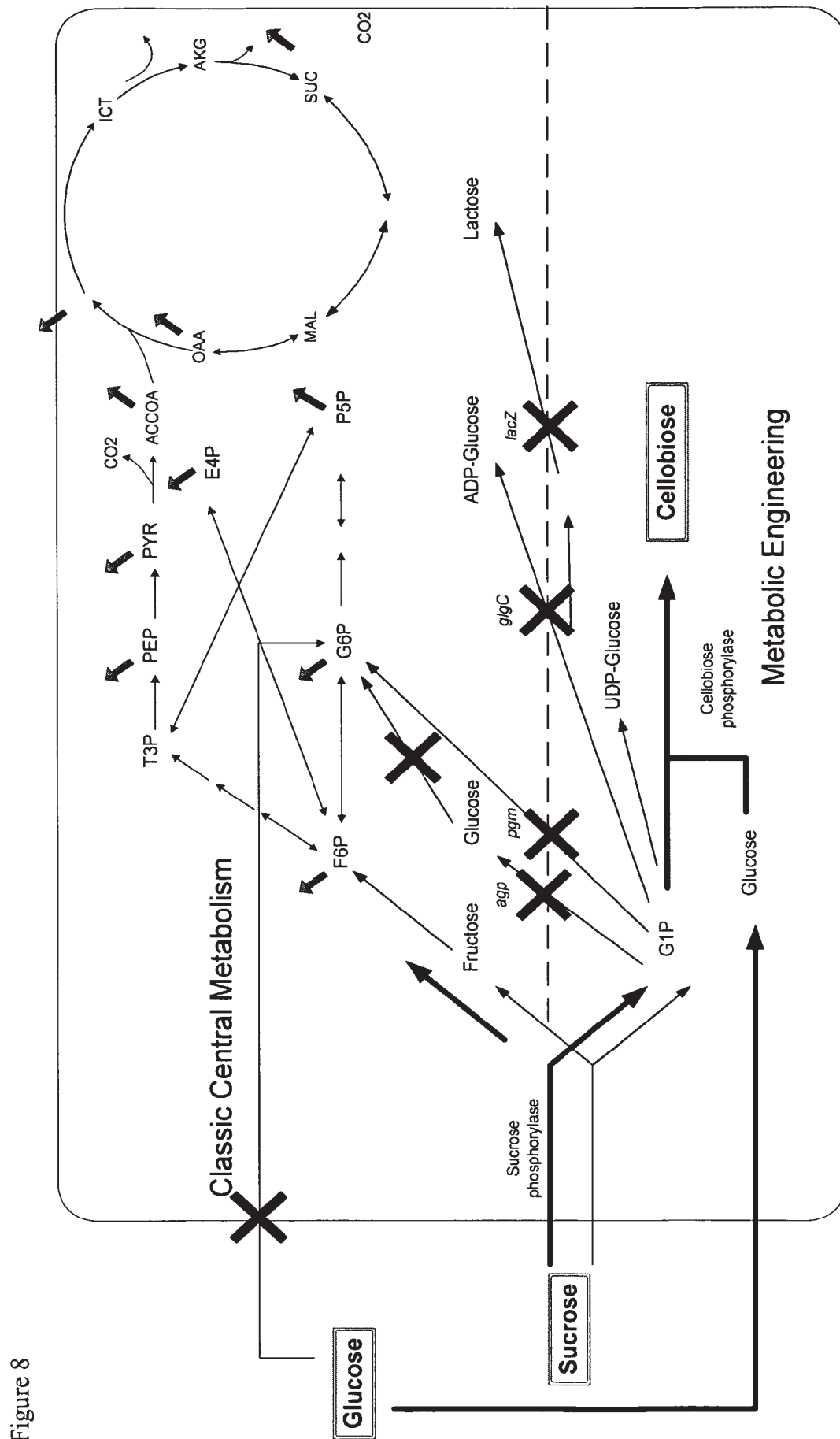
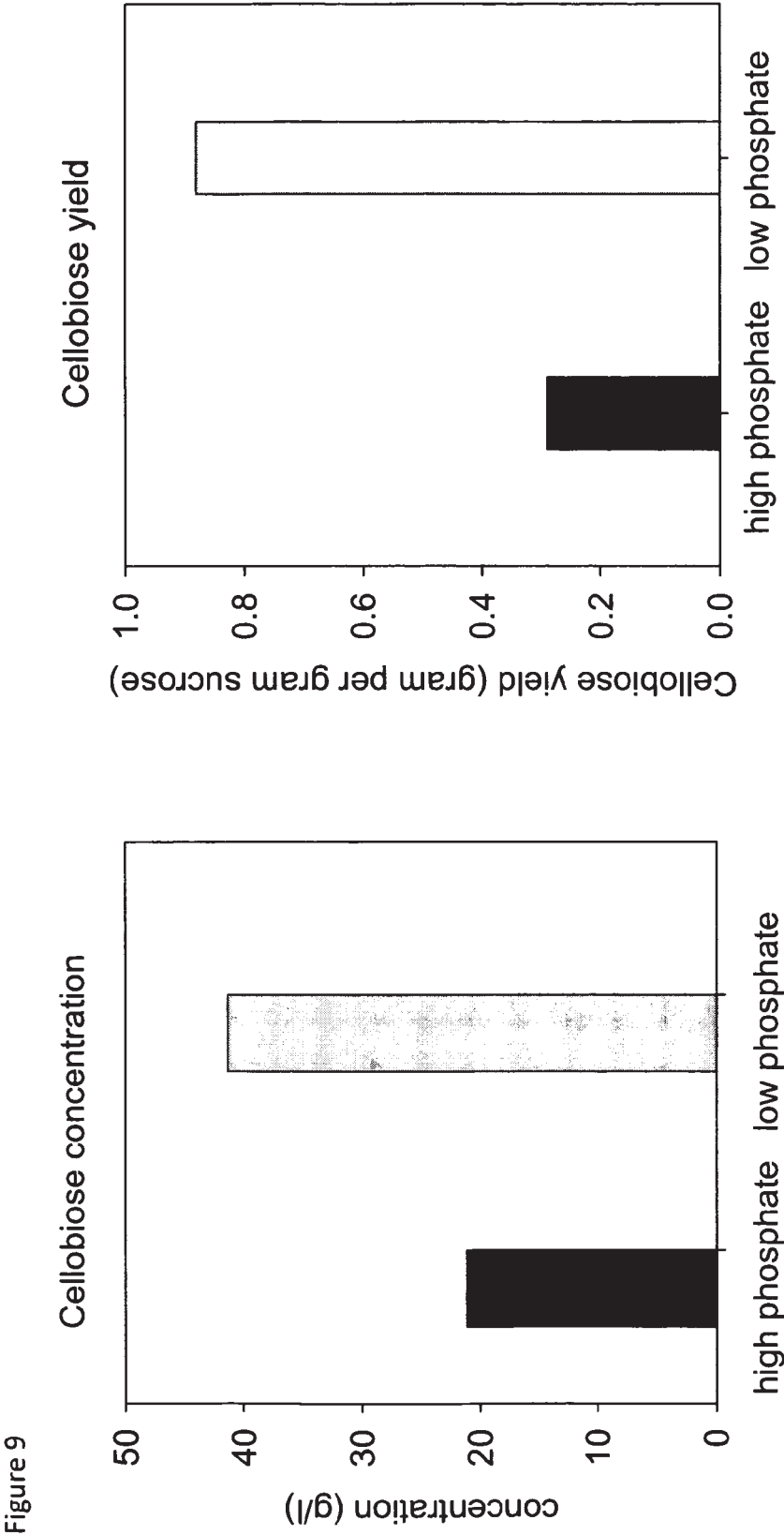
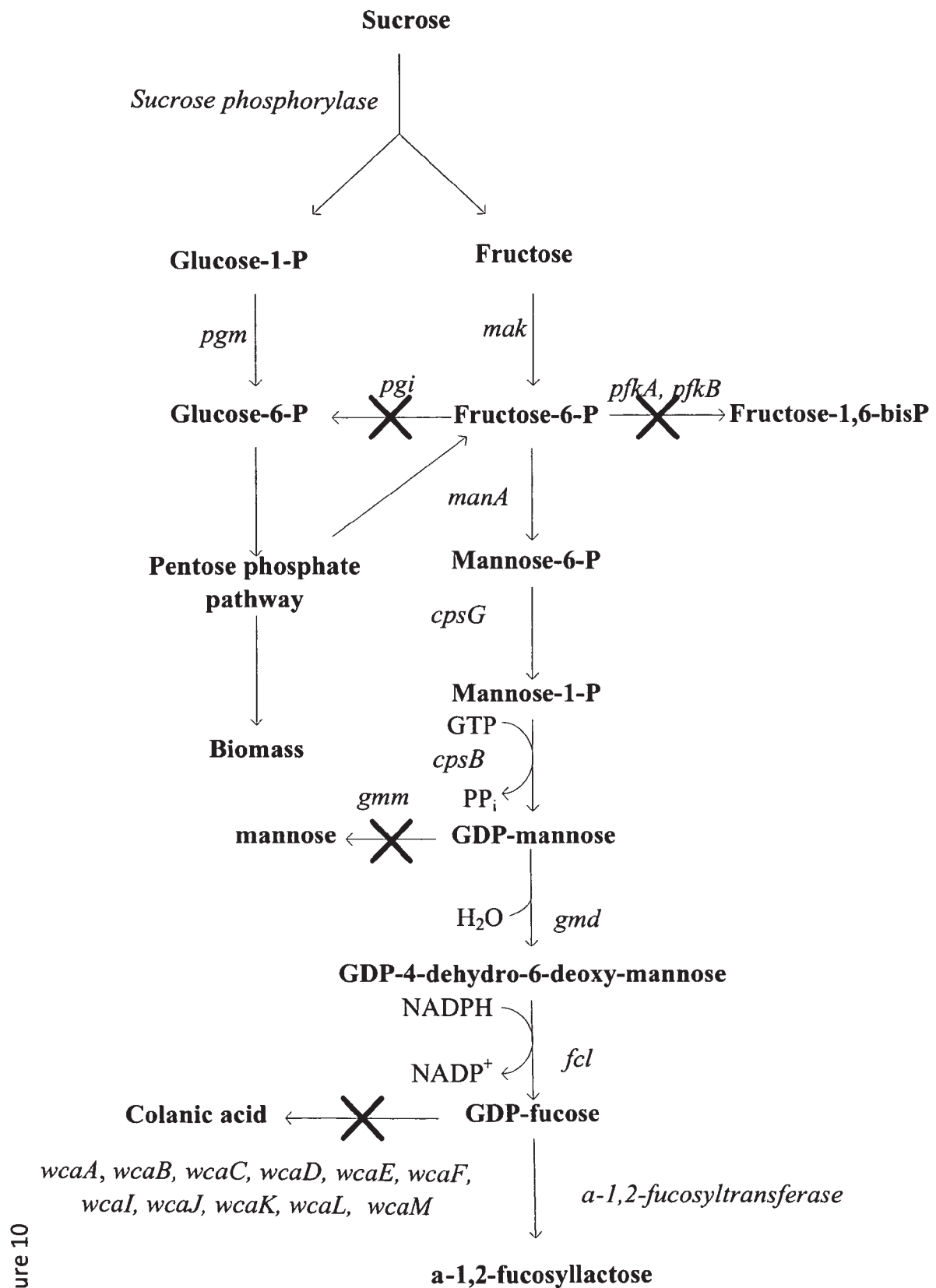


Figure 8





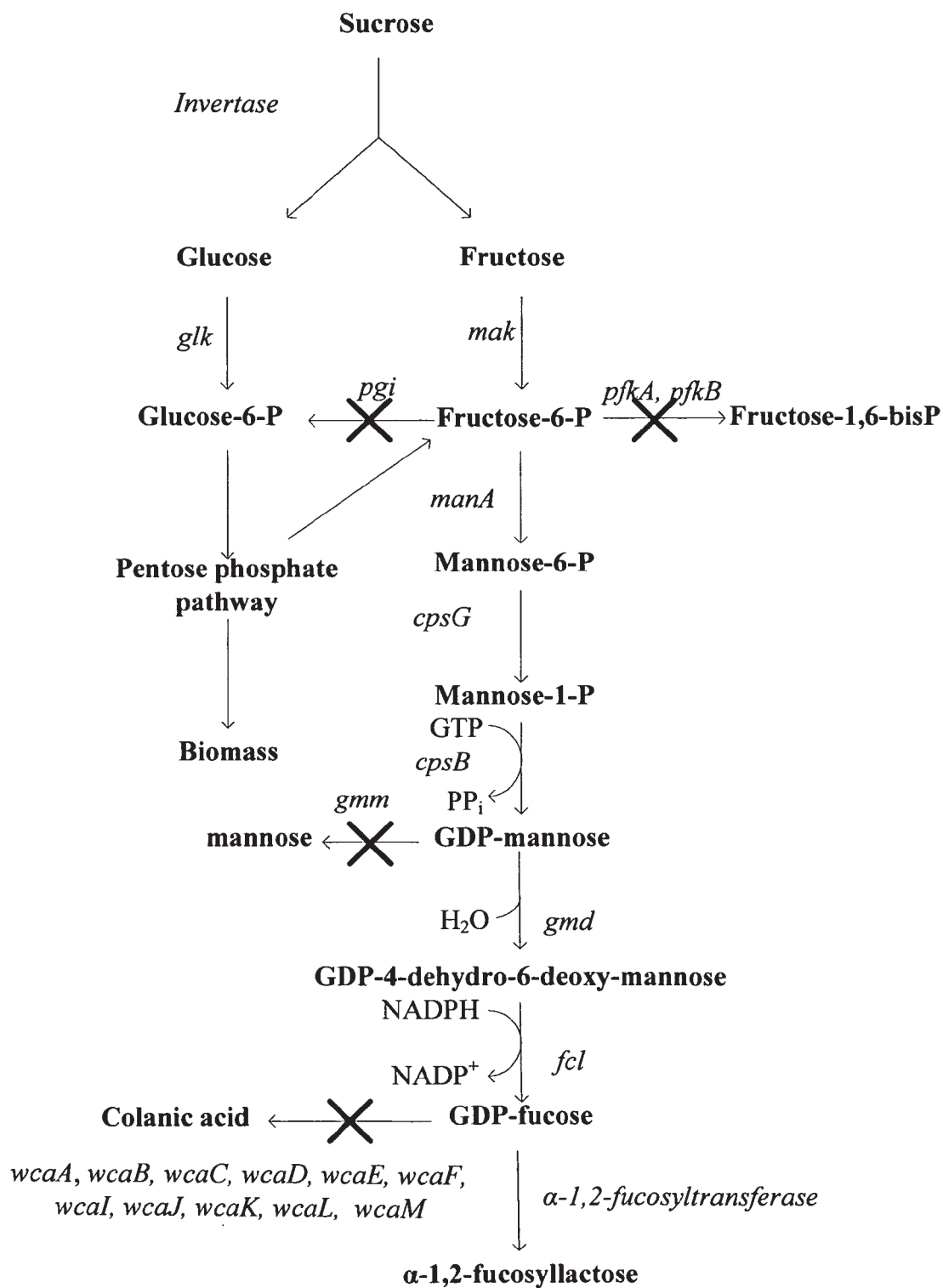


Figure 10 cont.

Figure 11

AGCATGATCGAACACATCATGCAGTCGATGCAATTCCCGGCGGAATTGATTGAGAAGG
 TTTGCGGAACCTATCTAAAACGTTGCAGACAAAGGACAAAGCAATGGCAATCCACAATC
GTGCAGGCCAACCTGCACAACAGAGTGATTTGATTAAACGTCGCCCAACTGACGGCGCA
ATATTATGTACTGAAACCAGAAGCAGGGAATGCGGAGCACGCGGTGAAATTCGGTACT
TCCGGTCACCGTGGCAGTGCAGCGCGCCACAGCTTTAACGAGCCGCACATTCTGGCGA
TCGCTCAGGCAATTGCTGAAGAACGTGCGAAAAACGGCATCACTGGCCCTTGCTATGT
GGGTAAAGATACTCACGCCCTGTCCGAACCTGCATTCAATTTCCGTTCTGGAAGTGCTG
GCAGCGAACGGCGTTGATGTCAATTGTGCAGGAAAACAATGGCTTCACCCCGACGCCTG
CCGTTTCCAATGCCATCCTGGTTCACAATAAAAAAGGTGGCCCGCTGGCAGACGGTAT
CGTGATTACACCGTCCCATAACCCGCCGGAAGATGGTGGAATCAAATACAATCCGCCA
AATGGTGGCCCGGCTGATACCAACGTCACTAAAGTGGTGGAAGACAGGGCCAACGCAC
TGCTGGCCGATGGCCTGAAAGGCGTGAAGCGTATCTCCCTCGACGAAGCGATGGCATC
CGGTCATGTGAAAGAGCAGGATCTGGTGCAGCCGTTCTGGAAGGTCTGGCCGATATC
GTTGATATGGCCGCGATTCAGAAAGCGGGCCTGACGCTGGGCGTTGATCCGCTGGGCG
GTTCCGGTATCGAATACTGGAAGCGTATTGGCGAGTATTACAACCTCAACCTGACTAT
CGTTAACGATCAGGTCGATCAAACCTTCCGCTTTATGCACCTTGATAAAGACGGCGCG
ATCCGTATGGACTGCTCCTCCGAGTGTGCGATGGCGGGCCTGCTGGCACTGCGTGATA
AGTTCGATCTGGCGTTTGCTAACGACCCGGATTATGACCGTCACGGTATCGTCACTCC
GGCAGGTTTGATGAATCCGAACCACTACCTGGCGGTGGCAATCAATTACCTGTTCCAG
CATCGTCCGCAGTGGGGCAAAGATGTTGCCGTCCGTAAAACGCTGGTTTCATCTGCGA
TGATCGACCGTGTGGTCAACGACTTGGGCCGTAAACTGGTAGAAGTCCCGGTAGGTTT
CAAATGGTTTGTGATGGTCTGTTGACGGCAGCTTCGGCTTTGGCGGCGAAGAGAGT
GCAGGGGCTTCCTTCCTGCGTTTCGACGGCAGCCGTGGTCCACCGACAAAGACGGCA
TCATCATGTGTCTGCTGGCGGCGGAAATCACCGCTGTCACCGGTAAGAACCCGCAGGA
ACACTACAACGAACTGGCAAAACGCTTTGGTGCGCCGAGCTACAACCGTTTGCAGGCA
GCTGCGACTTCCGCACAAAAAGCGGCGCTGTCTAAGCTGTCTCCGGAATGGTGAGCG
CCAGCACCCCTGGCAGGTGACCCGATCACCGCGCGCCTGACTGCTGCTCCGGGCAACGG
TGCTTCTATTGGCGGTCTGAAAGTGATGACTGACAACGGCTGGTTCGCCGCGCGTCCG
TCAGGCACGGAAGACGCATATAAGATCTACTGCGAAAGCTTCCTCGGTGAAGAACATC
GCAAGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTA
AACACATTTAATAAAAAAAGGGCGGTGCAAGATCGCCCTTTTTTTACGTATGACAAAC
ACAGAATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGAT

Figure 12

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAA
 TCAGACCAAGCCGAAACATGTGCCAGGCACGCCGTATTGGGTGATCACCAACA
 CCAACACCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAA
 TCCCGGCGGAATTGATTGAGAAGGTTTGCAGAACTATCTAAAACGTTGCAGA
 CAAAGGACAAAGCA**GTGTAGGCTGGAGCTGCTTCGAAGTTCCTATACTTTCTA**
GAGAATAGGAACTTCGGAATAGGAACTAAGGAGGATATTCATATGACACATTT
AATAAAAAAAGGGCGGTGCAAGATCGCCCTTTTTTTACGTATGACAAACACAG
AATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGATGGTGCAATATATTG
AATTTAAGCGATTTTGTAGGCCGATAAGGCGTTCACGCCGCATCCGGCAAAA
ACAACGAACACTTTGTCAACAACTGAGTAGC

Figure 13

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAATCA
GACCAAGCCGAAACATGTGCCAGGCACGCCGTATTGGGTGATCACCAACACCAACA
CCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAATTCCCGGCG
GAATTGATTGAGAAGGTTTGCGGAACTATCTAAAACGTTGCAGACAAAGGACAAAG
CAGTGTAGGCTGGAGCTGCTTCGAAGTTCCTATACTTTCTAGAGAATAGGAACTTC
GGAATAGGAACTAAGGAGGATATTCATATGGACCGATATCCCGGGCGGCCGCTTCA
TTTATAAATTTCTTGACATTTTGGAAATAGATGTGATATAATGTGTACATATCCATG
GCGGCCGCTCTAGAAGAAGCTTGGGATCCGTGCACCTCGAATTCGGAGGAAACAAA
GATGGGGGGTTCTCATCATCATCATCATGGTATGGCTAGCATGAGTAAAGGAG
AAGAACTTTTCACTGGAGTTGTCCCAATTCCTGTTGAATTAGATGGTGATGTTAAT
GGGCACAAATTTCTGTGTCAGTGGAGAGGGTGAAGGTGATGCAACATACGGAAACT
TACCCTTAAATTTATTTGCACTACTGGAAACTACCTGTTCCATGGCCAACACTTG
TCACTACTTTTCGGGTATGGTGTTCAATGCTTTGCNAGATACCCAGATCATATGAAA
CAGCATGACTTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGGAAAGAACTAT
ATTTTTCAAAGATGACGGGAACTACAAGACACGTGCTGAAGTCAAGTTTGAAGGTG
ATACCCTTGTTAATAGAATCGAGTTAAAAGGTATTGATTTTAAAGAAGATGGAAAC
ATTCTTGGACACAAATTGGAATACAACATACTCACACAATGTATACATCATGGC
AGACAAACAAAAGAATGGAATCAAAGTTAACTTCAAATTAGACACAACATTGAAG
ATGGAAGCGTTCAACTAGCAGACCATTATCAACAAAATACTCCAATTGGCGATGGC
CCTGTCCTTTTACCAGACAACCATTACCTGTCCACACAATCTGCCCTTTTCGAAAGA
TCCCAACGAAAAGAGAGACCACATGGTCCTTCTTGAGTTTGTAACAGCTGCTGGGA
TTACACATGGCATGGATGAACTATACAAATAACTGCAGGTCGACCATATGGGAGAG
CTCCCAACGCGTTGGATGCAGGCATGCAAGCTTGGCTGTTTTGGCGGATGAGAGAA
GATTTTCAGCCTGATACAGATTAAATCAGAACGCAGAAGCGGTCTGATAAAACAGA
ATTTGCCTGGCGGCAGTAGCGCGGTGGTCCCACCTGACCCCATGCCGAATCAGAA
GTGAAACGCCGTAGCGCCGATGGTAGTGTGGGGTCTCCCCATGCGAGAGTAGGGAA
CTGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTTCGTTTT
ATCTGTTGTTTGTGCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGA
TTTGAACGTTGCGAAGCAACGGCCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAA
CTGCCAGGCATCAAATTAAGCAGAAGGCCATCCTGACGGATGCTACTGCGAAAGCT
TCCTCGGTGAAGAACATCGCAAGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGC
GAAGTTCTGAAAAACGCGTAACTACTGCGAAAGCTTCCTCGGTGAAGAACATCGCA
AGCAGATTGAGAAAGAAGCGGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTAA
ACACATTTAATAAAAAAAGGGCGGTGCGAAGATCGCCCTTTTTTACGTATGACAAA
CACAGAATTGCCTGATGCGCTACGCTTATCAGGCCTACGAGGATGGTGCAATATAT
TGAATTTAAGCGATTTTGTAGGCCGATAAGGCGTTCACGCCGCATCCGGCAAAAA
CAACGAACACTTTGTCAACAACTGAGTAGCTCAAGGAAATCCCA

Figure 14

CGTACACGCGTTTACTTTGCGGCAGATGAACAAACGCTGCTGAAAAATGGTAATC
AGACCAAGCCGAAACATGTGCCAGGCACGCCGATTGGGTGATCACCAACACCAA
CACCGGCCGTAAATGCAGCATGATCGAACACATCATGCAGTCGATGCAATTCCCG
GCGGAATTGATTGAGAAGGTTTGCGGAACTATCTAAAACGTTGCAGACAAAGGAC
AAAGCA**ACGAAAGGCTCAGTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTTG**
TCCGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTG
CGAAGCAACGGCCCCGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCA
TCAAATTAAGCAGAAGGCCATCCTGACGGATGGCCTTTTTTGCGTGGCCAGTGCCA
AGCTTGCATGCAGATTGCAGCATTACACGTCTTGAGCGATTGTGTAGGCTGGAGC
TGCTTCGAAGTTCCTATACTTTCTAGAGAATAGGAACTTCGGAATAGGAACTTCA
AGATCCCCCTCACGCTGCCGCAAGCACTCAGGGCGCAAGGGCTGCTAAAGGAAGCG
GAACACGTAGAAAGCCAGTCCGCAGAAACGGTGCTGACCCCGGATGAATGTCAGC
TACTGGGCTATCTGGACAAGGGAAAACGCAAGCGCAAAGAGAAAGCAGGTAGCTT
GCAGTGGGCTTACATGGCGATAGCTAGACTGGGCGGTTTTATGGACAGCAAGCGA
ACCGGAATTGCCAGCTGGGGCGCCCTCTGGTAAGGTTGGGAAGCCCTGCAAAGTA
AACTGGATGGCTTTCTTGCCGCCAAGGATCTGATGGCGCAGGGGATCAAGATCTG
ATCAAGAGACAGGATGAGGATCGTTTCGCAAGATCCCCCTCACGCTGCCGCAAGCA
CTCAGGGCGCAAGGGCTGCTAAAGGAAGCGGAACACGTAGAAAGCCAGTCCGCAG
AAACGGTGCTGACCCCGGATGAATGTCAGCTACTGGGCTATCTGGACAAGGGAAA
ACGCAAGCGCAAAGAGAAAGCAGGTAGCTTGCAAGTGGGCTTACATGGCGATAGCT
AGACTGGGCGGTTTTATGGACAGCAAGCGAACCAGGATTGCCAGCTGGGGCGCCC
TCTGGTAAGGTTGGGAAGCCCTGCAAAGTAACTGGATGGCTTTCTTGCCGCCAA
GGATCTGATGGCGCAGGGGATCAAGATCTGATCAAGAGACAGGATGAGGATCGTT
TCGCGCGGGACTCTGGGGTTCGAAATGACCGACCAAGCGACGCCCAACCTGCCAT
CACGAGATTTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGT
TTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTC
TCTACTGCGAAAGCTTCCTCGGTGAAGAACATCGCAAGCAGATTGAGAAAGAAGC
GGTTGAGATTGTTAGCGAAGTTCTGAAAAACGCGTAAACACATTTAATAAAAAAA
GGGCGGTCGCAAGATCGCCCTTTTTTACGTATGACAAACACAGAATTGCCTGATG
CGTACGCTTATCAGGCCTACGAGGATGGTGCAATATATTGAATTTAAGCGATTT
TGTAGGCCGGATAAGGCGTTCACGCCGCATCCGGCAAAAACAACGAACACTTTGT
CAACAACTGAGTAGCTCAAGGAAATCCCA

Figure 15

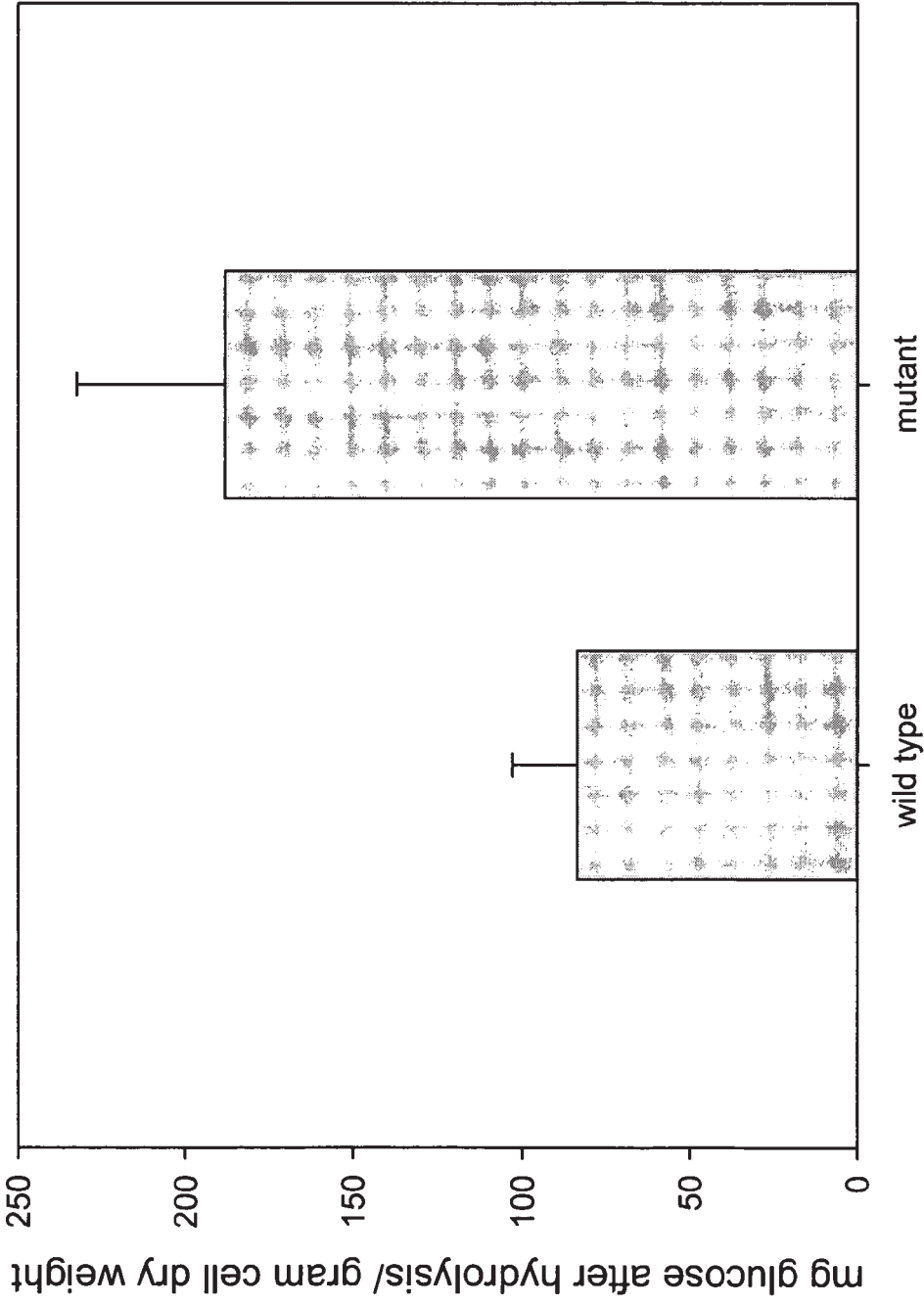


Figure 16

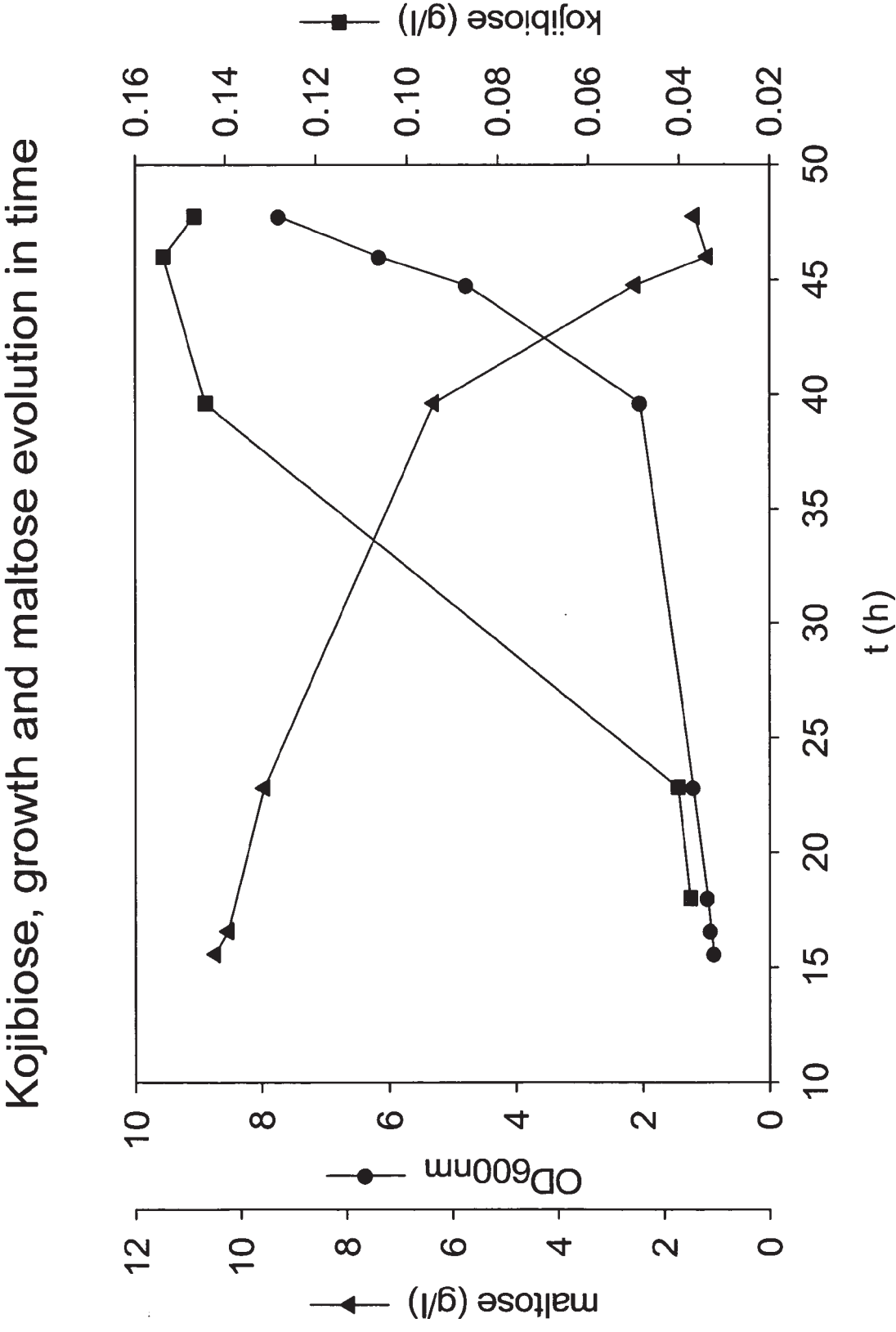


Figure 17

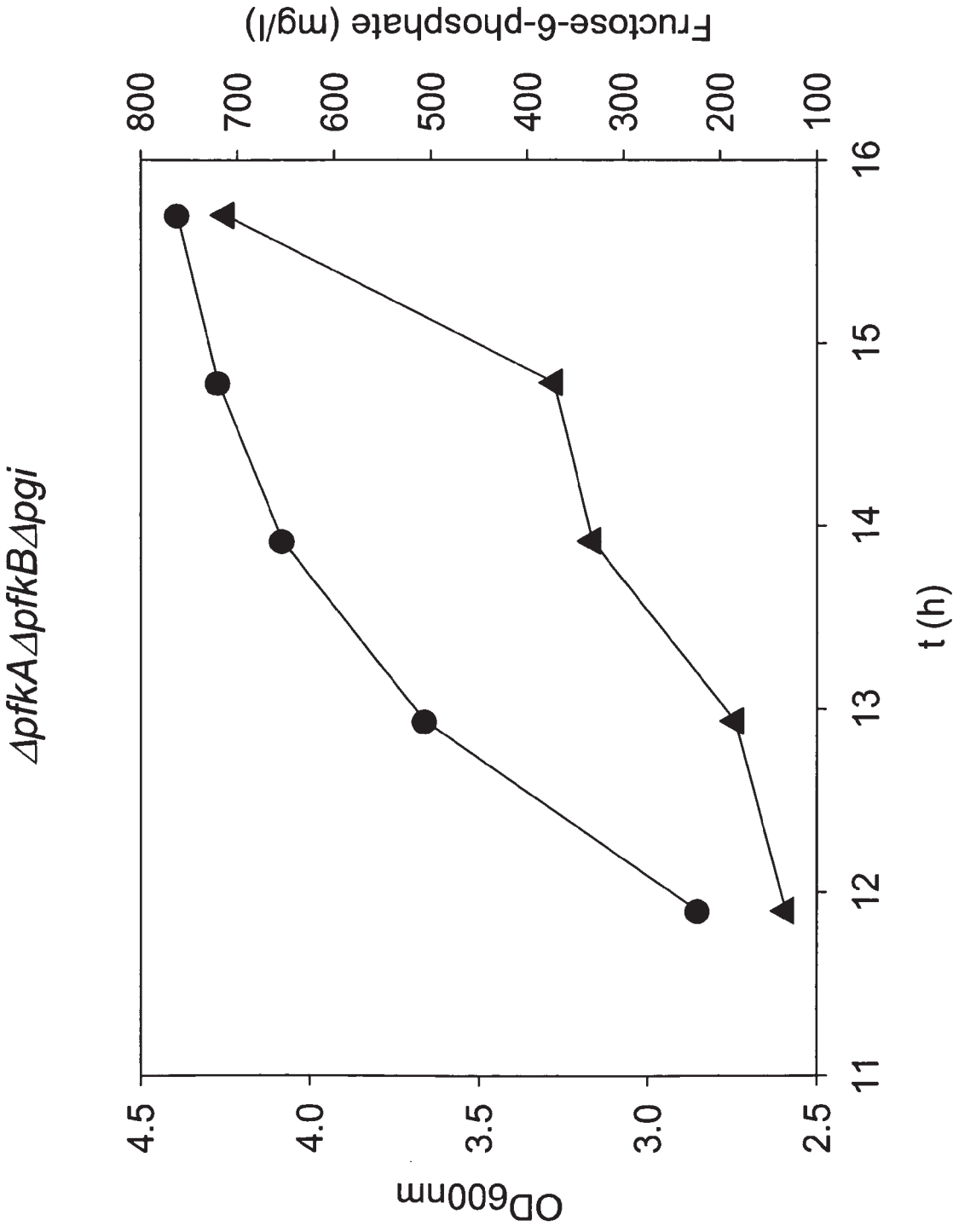


Figure 18

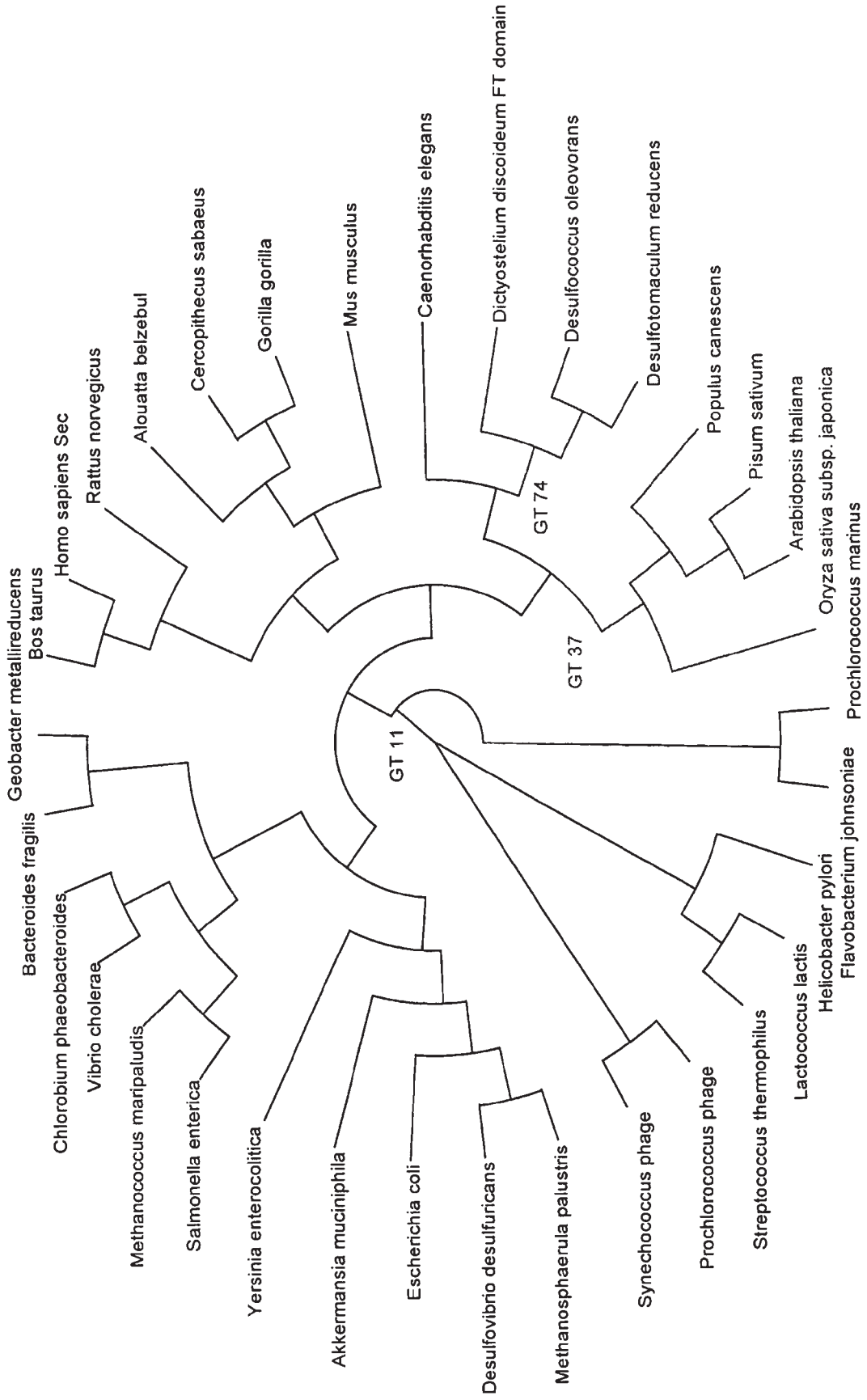


Figure 20

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

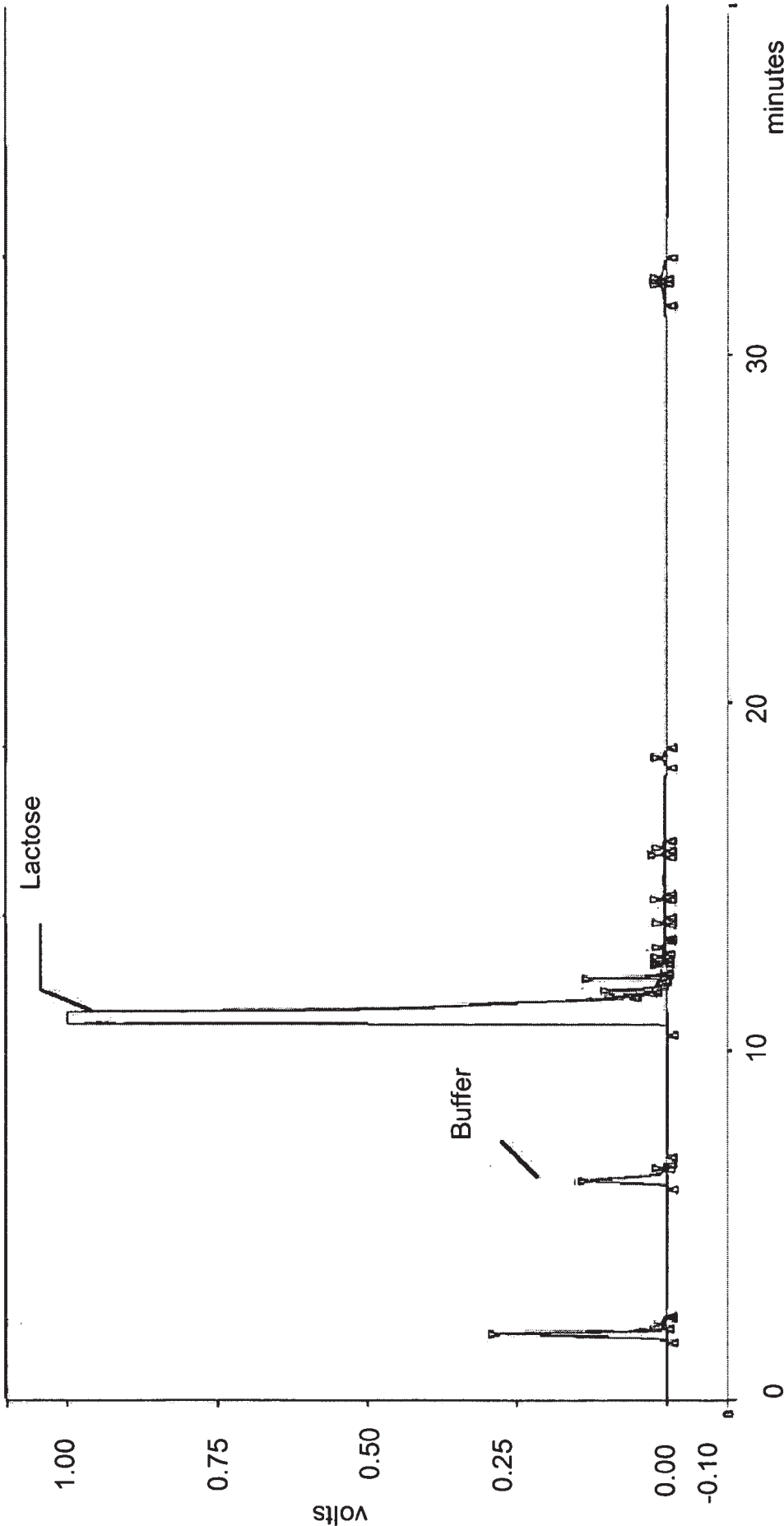


Figure 20 cont.

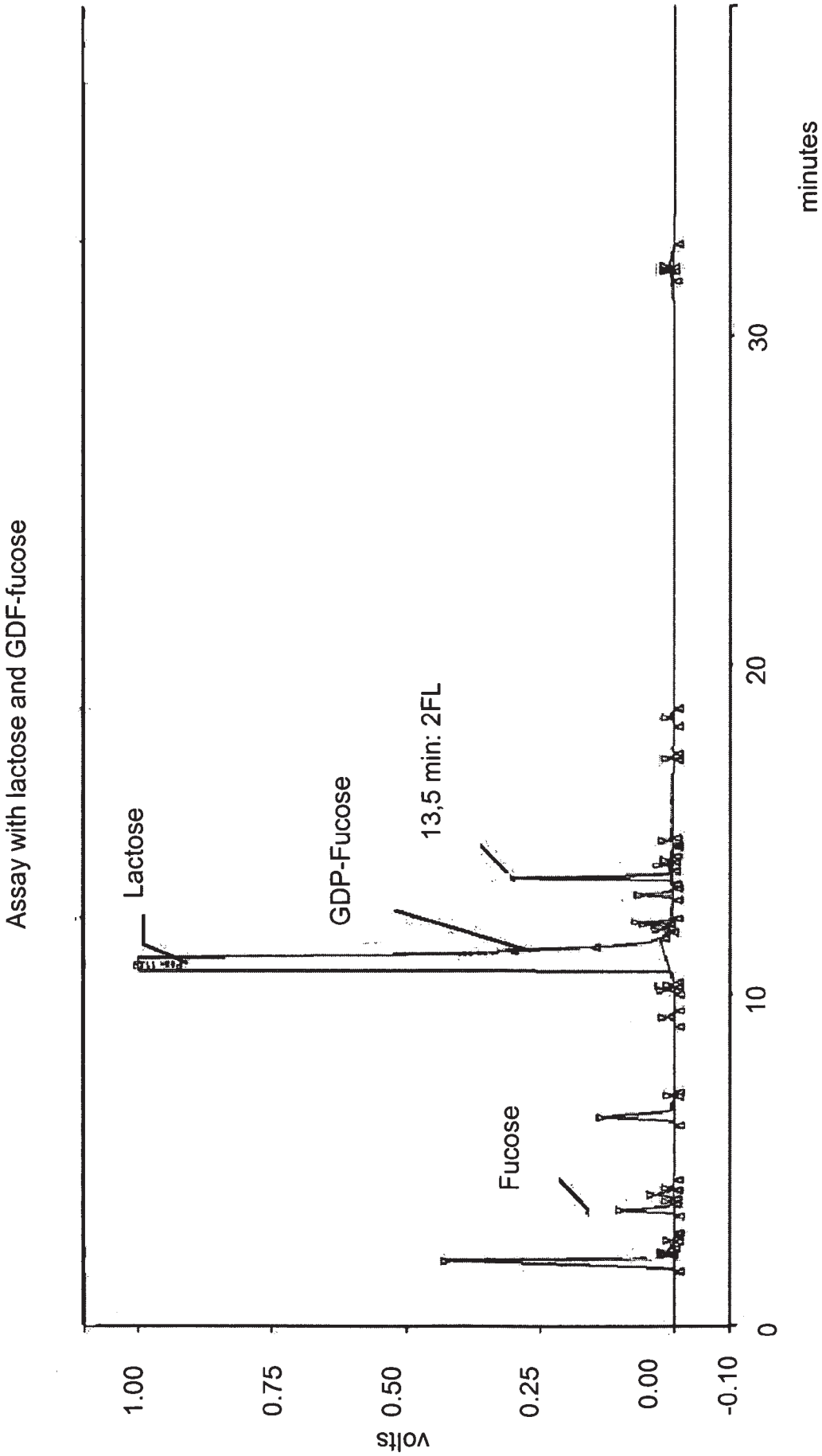


Figure 21

