Bifidobacterium bifidum Bg41221_3D10 D-fructose (Fru) D-xylose (Xyl) 1.5 1.0 0.5 0.0 N-acetyl-D-galactosamine (GalNAc) N-acetyl-D-mannosamine (ManNAc) L-arabinose (Ara) D-ribose (Rib) N-acetyl-D-glucosamine (GlcNAc) N-acetylneuraminic acid (Neu5Ac) 1.5 1.0 0.5 0.0 D-glucuronate (GlcA) 1.5 1.0 0.5 Maltose (Mal) Melezitose (MIz) 1.5 1.0 0.5 OD600 Melibiose (Mel) 1.5 1.0 0.5 0.0 Sucrose (Scr) Arabinotriose (aAOS) 1.5 1.0 0.0 Lacto-N-tetraose (LNT) 3'-sialyllactose (SHMO) Lacto-N-neotetraose (LNnT) 2'-fucosyllactose (2'FL) 6'-sialyllactose (SHMO) Potato soluble starch (ST) 1.5 1.0 0.5 0.0 1.5 1.0

0.5

20

10

20

30

40 0

Time (h)

10

20

30

10 20

20