Bifidobacterium breve JG\_Bg463 D-galactose (Gal) D-fructose (Fru) D-mannose (Man) D-xylose (Xyl) 1.5 1.0 0.5 0.0 N-acetyl-D-mannosamine (ManNAc) L-arabinose (Ara) D-ribose (Rib) N-acetyl-D-glucosamine (GlcNAc) N-acetyl-D-galactosamine (GalNAc) N-acetylneuraminic acid (Neu5Ac) 1.5 1.0 0.5 D-glucuronate (GlcA) D-mannitol (Mtl) D-sorbitol (Stl) 1.5 1.0 0.5 0.0 Maltose (Mal) Maltotriose (MOS) Panose (IMO) Isomaltotriose (IMO) Melezitose (MIz) Cellobiose (BgIOS) 1.5 1.0 0.5 0.0 0.0 Melibiose (Mel) Raffinose (RFO) 1.5 1.0 0.5 0.0 Mannotriose (bMnOS) Xylotriose (XOS) Arabinotriose (aAOS) 1.5 1.0 0.5 0.0 Lacto-N-neotetraose (LNnT) Potato soluble starch (ST) Lacto-N-tetraose (LNT) 6'-sialyllactose (SHMO) 2'-fucosyllactose (2'FL) 3'-sialyllactose (SHMO) 1.5 1.0 0.5 0.0 Pullulan (PUL) 1.5 1.0 0.5

40 0

Time (h)

10

20

30

40 0

10 20

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10

20

30

0.0

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40 0

30

10

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30

20