Bifidobacterium catenulatum subsp. kashiwanohense Bg42221\_1E1 D-glucose (Glc) No substrate D-galactose (Gal) D-fructose (Fru) D-xylose (Xyl) D-mannose (Man) 1.5 1.0 0.5 0.0 L-arabinose (Ara) D-ribose (Rib) 1.5 1.0 0.5 0.0 1.5 1.0 0.5 0.0 Maltotriose (MOS) Panose (IMO) Maltose (Mal) Melezitose (MIz) Cellobiose (BgIOS) 1.5 1.0 0.5 OD900 0.0 1.5 1.0 0.5 0.0 Xylotriose (XOS) 1.5 1.0 0.5 0.0 Lacto-N-tetraose (LNT) Lacto-N-neotetraose (LNnT) 3'-sialyllactose (SHMO) 6'-sialyllactose (SHMO) 2'-fucosyllactose (2'FL) Potato soluble starch (ST) 1.5 1.0 0.5 0.0 Pullulan (PUL) Gum arabic from acacia tree (GA) Sugar beet arabinan (AR) Tamarind xyloglucan (XGL) 1.5 1.0 0.5

20

30

40

10 20 30

10

0.0

20

30

20

30

10 20

40 0

Time (h)

10

20

30 40