

## **Customer Array Ready Oligo Set**

**Organism:** *Lactobacillus sakei* str. 23K

**Total probes:** 2000

- 1) Single sense probes: 1932 (including the negative control probes from the other species)
- 2) Dual sense probes: 44 (22 at the 5'-half and 22 at the 3'-half)  
LSA0172, LSA0212, LSA332, LSA362, LSA534, LSA624, LSA708,  
LSA0912, LSA0955, LSA1034, LSA1141, LSA1261, LSA1335,  
LSA1406, LSA1568, LSA1704, LSA1730, LSA1731, LSA1800,  
GSU0001, 16S and 23S
- 3) Positive control probes: 2 (1 at the 5'-half and 1 at the 3'-half )  
LSA1606
- 4) Sense and antisense paired probes: 22 (11 sense and 11 antisense)  
GHO0001, GHO0002, GHO0003, GHO0004, GHO0005, GHO0006,  
GHO0007, GHO0008, GHO0009, GHO0010 and GHO0011

**Data source:** the customer supplied sequences (submitted to Genbank and EMBL)

**Design criteria:**

- 1) Probe length = 70 bases
- 2) Tm =  $73 \pm 5$  °C
- 3) Cross hybridization <= 70% (identity)
- 4) Contiguous bases common to other ORFs <= 20 bases
- 5) Poly (N) tract length <= 8 bases
- 6) Hairpin stem length <= 9 bases
- 7) Distal 3'-end distance > 70 bases
- 8) Low complexity filtering: simple repeat
- 9) Cross hybridization filtering databases: *L. sakei* str. 23K genome plus four *E. coli* genomes (strain CFT073, K12, O157H7, O157H7\_EDL933).