Design maximizing positive sample identification for prevalence range 1.03%-9.90% Tested: 6129 Individual testing optimal N:768, b:96, q:2 Tested: 3064 Tested: 5062 N:768, b:96, q:2 N:768, b:96, q:3 Tested: 1532 Tested: 2531 Tested: 3321 N:768, b:96, q:3 N:768, b:96, a:2 Tested: 766 Tested: 1265 Tested: 1660 N:768, b:96, q:3 N:384, b:48, q:2 Tested: 383 Tested: 630 Tested: 830 N:192, b:24, q:2 N:384, b:48, a:3 Tested: 191 Tested: 315 Tested: 409 N:192, b:24, q:3 N:96, b:12, q:2 Tested: 95 Tested: 156 Tested: 198 N:96, b:12, q:2 Tested: 47 Tested: 73 Tested: 92 N:48, b:6, q:2 Tested: 23 Tested: 36 Tested: 43 192 12 24 48 96 384 768 1536 3072 6144 Daily sample collection capacity Average number of samples tested Combinatorial Individual Simple pools of 4 Simple pools of 8

6144

3072

1536

768

384

192

96

48

24

12

0

2000

4000

6000

Daily test capacity