

### Supplementary Data

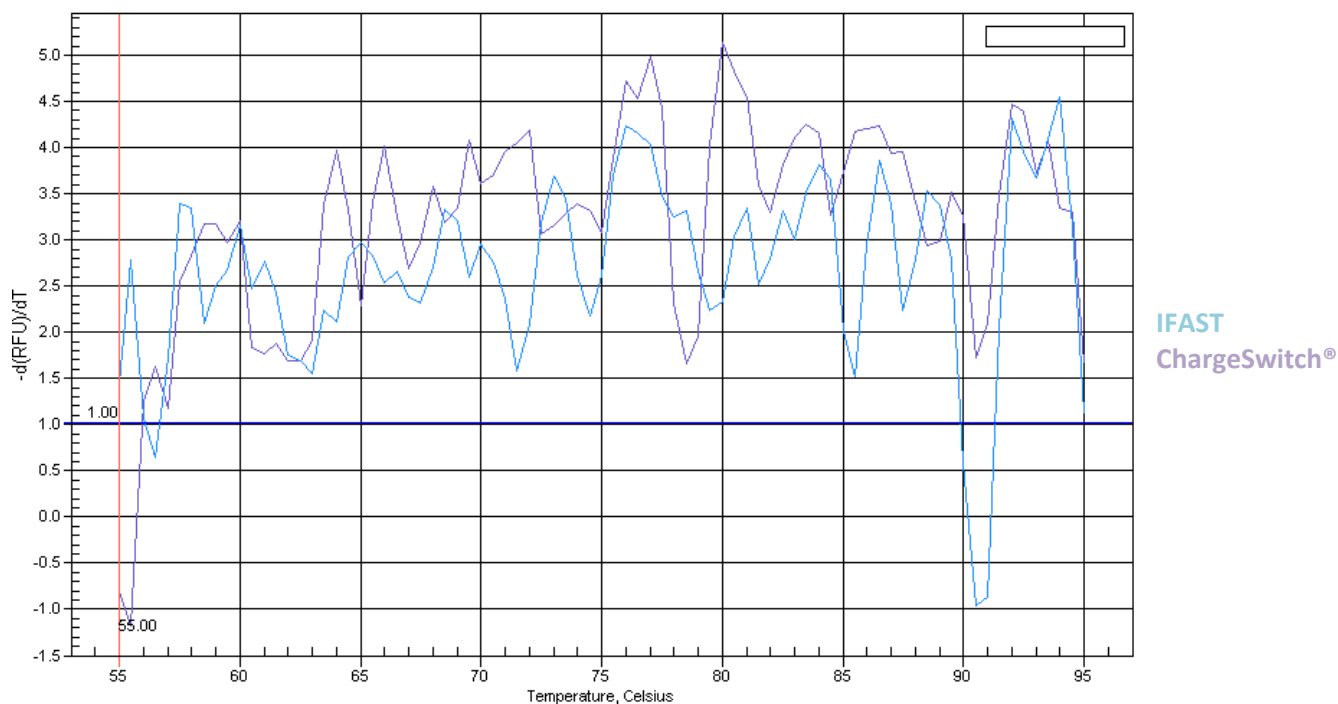


Figure S1: Melt curves of DNA purification from culture broth without *C. botulinum* cells using the IFAST and ChargeSwitch® methods. No amplification was seen.

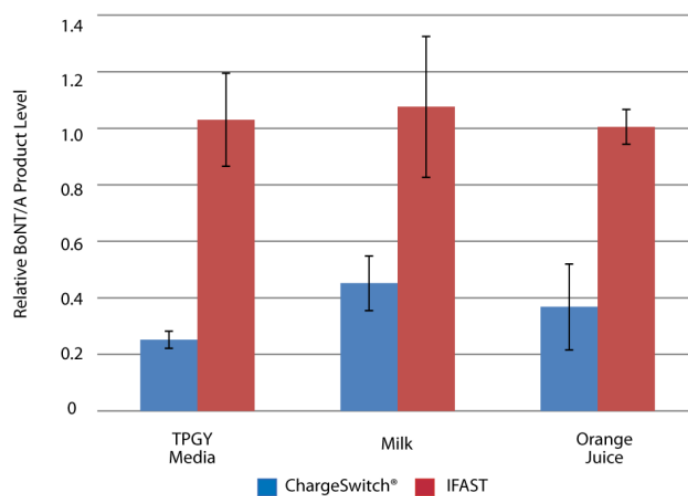


Figure S2: Relative *bont/A* product level was determined by the following equation.  
 $Relative\ Product = 2^{C_t\ IFAST\ average - C_t\ IFAST\ or\ ChargeSwitch®}$  The relative products were averaged and graphed. On average IFAST produces  $3.07 \pm 0.52$  more *bont/A* product.

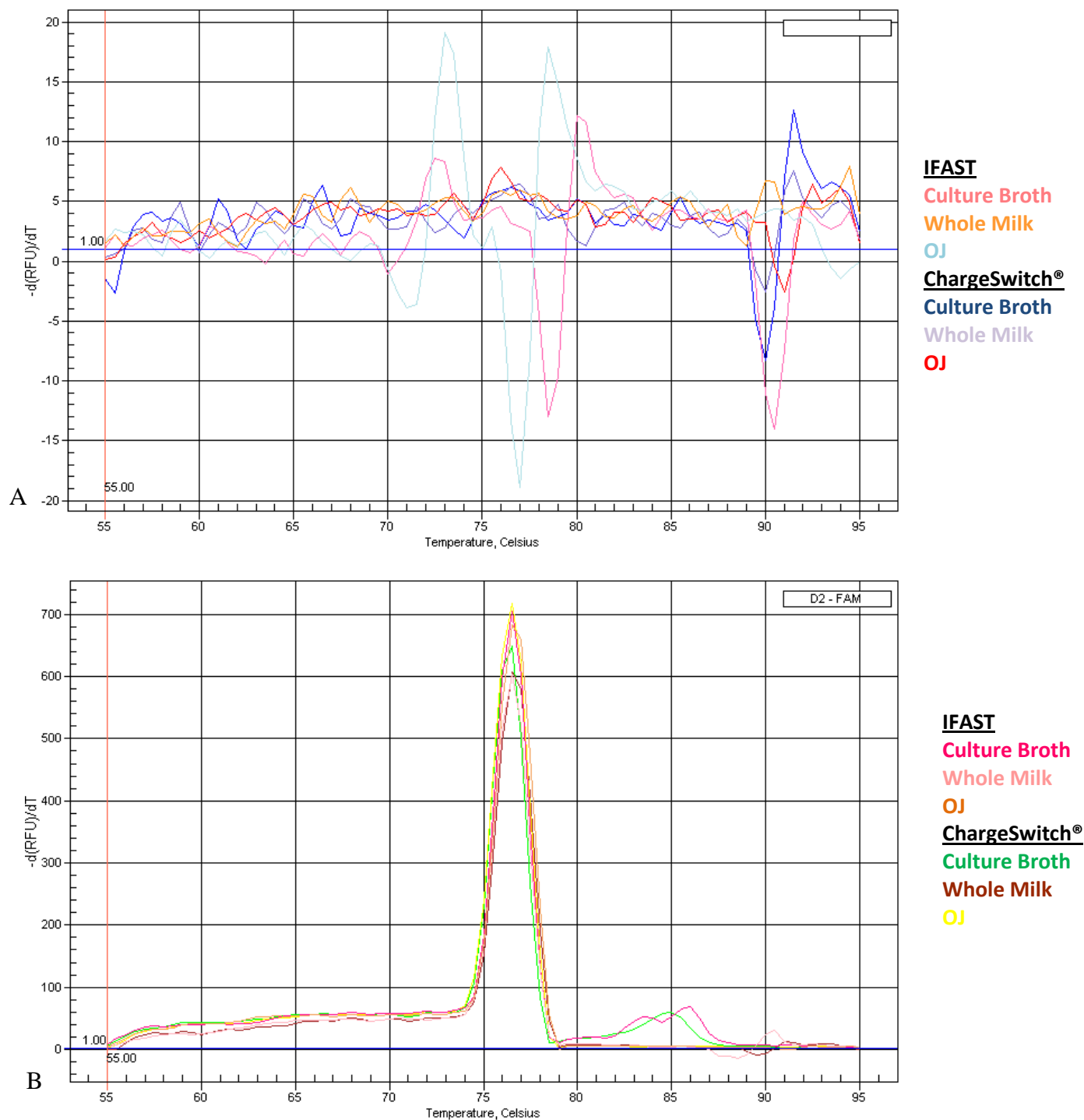


Figure S3: A. Melt curves of DNA purification from culture broth, whole milk and orange juice without *C. botulinum* cells using the IFAST and ChargeSwitch® methods. No amplification was seen. B. Melt curves of DNA purification from culture broth, whole milk and orange juice spiked

with  $10^8$  *C. botulinum* cells/mL using the IFAST and ChargeSwitch® methods. Amplification was seen.