

Verification data for the genesig Easy_oys Norovirus v2.0

An Oyster Extraction Workflow has been developed for the detection of Norovirus GI and Norovirus GII from oyster digestive tissue. Verification was performed using oyster digestive tissue extracted using the exsig® Mag Oyster Extract kit (R01294) for testing with the genesig® Easy kit for oys Norovirus GI GII v2.0 (R01292) on the q16 PCR instrument.

Standard Curve

A standard curve was produced using the positive control template for Norovirus G1 and Norovirus G2, respectively. A serial dilution was performed from 10^6 down to 10^4 , 10^2 and 10^1 copies per reaction to test using the genesig Easy_oys Norovirus v2.0 qPCR kit. The data is shown in figure 1 for the FAM channel. No sample matrix was used.

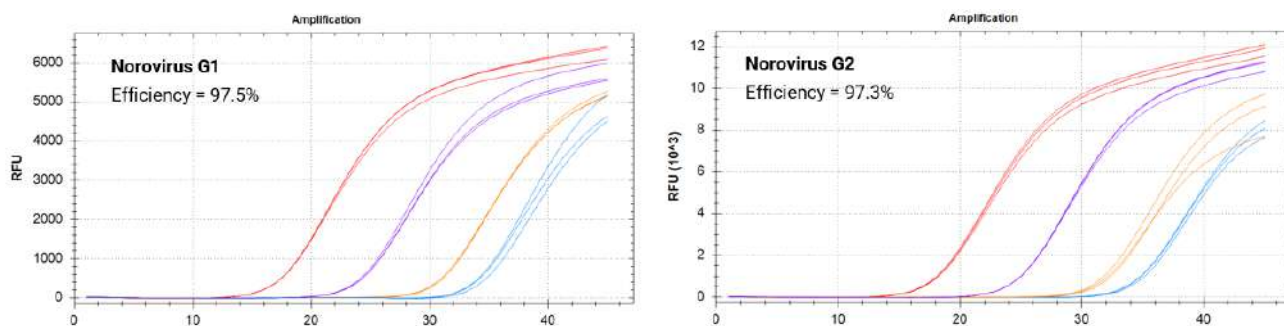


Figure 1. Standard curve profiles for Norovirus GI (left) and Norovirus GII (right).

Limit of Detection

The limit of detection for Norovirus GI and Norovirus GII was established using oyster digestive tissue contrived with synthetic RNA template and extracted using the exsig® Mag Oyster Extract kit. Oysters were sourced from England and Scotland. The limit of detection was established at 500 copies per 1 g of oyster tissue as over 95% were successfully detected using the genesig® Easy kit for oys Norovirus GI GII v2.0 for both Norovirus G1 and G2. The data is shown in figure 2 for the FAM channel.

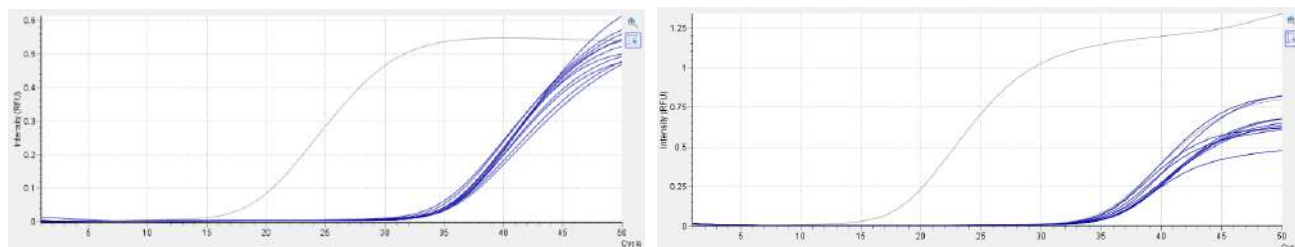


Figure 2. Limit of detection data for Norovirus GI (left) and Norovirus GII (right). The limit of detection was established at 500 copies per 1 g of oyster digestive tissue.