**Description of *Enterococcus* Digital PCR Dataset**

**Overview:**

This dataset includes repeated measures of the National Institute of Standards and Technology Standard Reference Material 2917 (SRM 2917) [1, 2] using an *Enterococcus* digital PCR (dPCR) assay (**Table 1**).

**Table 1:** *Enterococcus* primers and probes for digital PCR.

|  |  |  |  |
| --- | --- | --- | --- |
| Assay | Primer/Probe | Sequence (5’-3’) | Reference |
| Entero1a | Forward Primer | GAGAAATTCCAAACGAACTTG | [3, 4] |
| Reverse Primer | CAGTGCTCTACCTCCATCATT |
| Probe (FAM) | [FAM]TGGTTCTCTCCGAAATAGCTTTAGGGCTA[TAMRA] |

SRM 2917 is a ready to use, commercially available, linearized plasmid consisting of five dilutions ranging from dilution Level 1 (10.3 copies/2 µl) to Level 5 (1.04 · 105 copies/2 µl). This dataset reports repeated (3 replicates per instrument run for six instrument runs) measures of Dilution Level 3 (1.06 · 103 copies/2 µL) and Level 4 (1.06 · 104 copies/2 µL).

To monitor for potential extraneous DNA contamination during dPCR amplification, three no-template controls (NTC) with molecular grade water substituted for template DNA were performed with each instrument run.

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**Disclaimer:** This research dataset has been reviewed in accordance with U.S. Environmental Protection Agency (U.S. EPA), Office of Research and Development, and approved for release. Mention of brand names or vendors does not constitute an endorsement of products or services by the U.S. EPA.

**References:**

1. Kralj, J., et al., *Certification of standard reference material 2917 plasmid DNA for fecal indicator detection and identification.* NIST Special Publication, 2021: p. 1-41.

2. Willis, J.R., et al., *Performance of NIST SRM 2917 with 13 recreational water quality monitoring qPCR assays.* Water Research, 2022. **212**: p. 118114.

3. Ludwig, W. and K.H. Schleifer, *How quantitative is quantitative PCR with respect to cell counts?* Systematic and Applied Microbiology, 2000. **23**(4): p. 556-562.

4. Sivaganesan, M., et al., *MPN estimation of qPCR target sequence recoveries from whole cell calibrator samples.* Journal of Microbiological Methods, 2011. **87**: p. 343-349.