| Louisiana Office of Public Health Laboratories | |
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| Test Name | Fluorogenic Substrate Method for the Detection and Quantitation of <i>Enterococci</i> in Marine Water |
| PHL Location | Central Laboratory |
| CPT Code | N/A |
| Synonyms | Enterolert Test, Enterolert Most Probable Number Technique |
| Brief Description of Test | Enterolert reagent is added to a 1:10 dilution of beach water sample. The sample with reagent added is mixed, then poured into a Quanti-Tray. The Quanti-Tray is sealed and incubated at 41°C for 24 hours. After incubation the number of fluorescent wells is counted. Fluorescence of any intensity indicates the presence of Enterococci. The Most Probable Number (MPN) of <i>Enterococci</i> is read from a table based on the number of fluorescent wells. The MPN value from the table is multiplied by 10 to account for the dilution factor. The reporting range is <10 to >2005 MPN/100ml. Salinity is also analyzed for beach water samples. |
| Possible Results | Enterococci MPN / 100ml |
| Reference Range | Out of compliance if the 30 day geometric mean based on not less than 5 samples during any 30 day period exceeds 35 cfu/100mL OR if any single sample exceeds 104 cfu/100mL |
| Specimen Type | Beach water |
| Specimen Container(s): | Sterile, disposable 120 ml Idexx vessels |
| Minimum volume accepted: | 100 ml |
| Collection Instructions | Samples should be collected by personnel trained in proper collection technique according to the Louisiana BEACH Program Sample Collection Standard Operating Procedures. |
| Storage and Transport Instructions | Place samples on ice in an insulated container to maintain a temperature from 1-4°C. Do not totally immerse sample bottles in water during transit or storage. Deliver to the testing laboratory within 6 hours of collection. |
| Causes for Rejection | Sample submitted more than 6 hours from collection time. Sample totally immersed in water during transport. Sample less than 0°C or greater than 10°C upon receipt. Sample with no ID or missing collection date or time. Sample leaking or insufficient volume. Sample frozen. Sample submitted in an inappropriate container. |

| Limitations of the Procedure | Samples must be delivered to the lab within 6 hours of collection. The initiation of sample analysis must begin within 2 hours of receipt within the laboratory. The sample must be read within 24 to 28 hours. The lack of fluorescence after 28 hours is a valid negative test, but fluorescence after 28 hours is an invalid positive test result. |
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| Interfering Substances | N/A |
| References | Quanti-Tray Insert & MPN Table, IDEXX Laboratories, One IDEXX Dr., Westbrook, Maine. Louisiana's BEACH Program Quality Assurance Project Plan, Louisiana LDH OPH, Version 3, 01/20/15. Fluorogenic Substrate Method for the Detection and Quantitation of Enterococci in Marine or Fresh Water, Enterolert Most Probable Number Technique, Standard Operating Procedures, LDH OPH Division of Laboratories, Version: May 2018. DOLSOPBWM-01 |
| Additional Information | Use the Louisiana BEACH Program Water Sample Form |
| Release Date | 06/12/2019 |

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