

Real Time testing in recreational waters

Bactiquick compared with Colilert

Summary of a Great Lakes Beach Association conference poster abstract

STUDY AT A GLANCE

39

water samples

5

recreational sites

8

sampling events

Researchers compared Bactiquick endotoxin-risk readings with Colilert E. coli measurements at three inland lakes and two Great Lakes beaches.

COMPARISON THRESHOLDS

Bactiquick

44 ERU or above

Colilert E. coli

300 MPN/100 mL or above

RESULTS

Bactiquick classification	Colilert below 300	Colilert 300 or above
Below 44 ERU	21	0
44 ERU or above	15	3

Overall classification agreement was 24/39 (62%). All 21 samples below 44 ERU were below the E. coli threshold; all three E. coli exceedances were flagged. Bactiquick also flagged 15 samples below the E. coli threshold.

Evidence status: Preliminary conference findings, based on only three E. coli exceedances. The authors call for further testing of higher-contamination samples.

RESEARCHER CREDITS

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Original: Bactiquick Endotoxin Testing: A Rapid Water Quality Assessment Tool

<https://www.greatlakesbeachassociation.org/poster-presentations-2025>