



































## "Less than LOD" does NOT mean "invalid result"



## Can MU replace LOD?

## **Advantages**

- No arbitrary cut-off
  - Everything is a number
- Decision could be specific to the particular test item
  - Uncertainty for *that* result



## Challenges

- MU does not give information about the measurement procedure
- MU is complicated near zero
  - Traditional MU limits may include zero
  - Many useful Bayesian approaches could exclude zero
- MU should be about the test item
  But often isn't
- An MU interval is two-sided
  - A detection decision is one-sided

LGC

Measurement uncertainty is not the same as detection capability



