Exercise 69

Many medical laboratory tests are run using 5.0 μL blood serum. What is this volume in milliliters?

Solution

Convert milliliters to liters and then to microliters by multiplying by the appropriate conversion factors. Start with 5.0 μ L, the given quantity.

$$5.0 \ \mu L = 5.0 \ \mu E \times \frac{1 \ k}{10^6 \ \mu E} \times \frac{1000 \ mL}{1 \ k} = 5.0 \times 10^{-3} \ mL$$