## Exercise 69

Many medical laboratory tests are run using $5.0 \mu \mathrm{~L}$ 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 $5.0 \mu \mathrm{~L}$, the given quantity.

$$
5.0 \mu \mathrm{~L}=5.0 \mu \mathrm{~L} \times \frac{1 \mathrm{~L}}{10^{6} \mu \mathrm{~K}} \times \frac{1000 \mathrm{~mL}}{1 \mathrm{~L}}=5.0 \times 10^{-3} \mathrm{~mL}
$$

