

Albumin:

To make 5% Albumin from 25% Albumin: Mix 1 part Solution (25% Albumin) to 4 parts Dilute (Normal Saline).

Example:

MD order is 100ml of 5% Albumin.

You have 20ml of 25% Albumin.

Add 80ml (4 x 20ml) of Normal Saline to 20ml of 25% Albumin to get 100ml of 5% Albumin.

The formula for this type of calculation is $N_1 \times V_1 = N_2 \times V_2$ (Normality of first solution times volume of first solution equals Normality of second solution times volume of second solution). We can substitute Percentage for Normality so:

Example:

$$0.25 \times 20\text{ml} = 0.05 \times V_2$$

$$V_2(0.05) = 5\text{ml}$$

$$V_2 = 100 \text{ (Total)}$$

You already have 20ml of 25% Albumin so add 80ml (4 parts) of dilute (Normal Saline) to equal 100ml total of 5% Albumin.