

## Making alterations to Plasmalyte IV maintenance bags

Plasmalyte 148\* comes in two formulation types:

1) **Plasmalyte 148** ("Plain Plasmalyte") 1 Litre bags

Each litre contains:

Sodium	140	mmol/L
Chloride	98	mmol/L
Bicarbonate	27	mmol/L
Potassium	5	mmol/L
Magnesium	1.5	mmol/L

2) **Plasmalyte 148 & Glucose 5%** ("Plasmalyte and Five") 1 Litre bags

Same as above, but with 50grams of Glucose in each litre.

### ADJUSTING THE **GLUCOSE** CONCENTRATION

To make Plasmalyte & **5%** (only if "Plasmalyte and Five" is unavailable):

Take a **1 Litre** bag of "Plain Plasmalyte": add **110mL of Glucose 50%** (55grams of glucose in 1110mL).

To make Plasmalyte & **10%** :

Take a **1 Litre** bag of "Plasmalyte and Five": add **125mL of Glucose 50%** (112.5 grams of glucose in 1125mL).

### ADJUSTING THE **POTASSIUM** CONCENTRATION (for either type of Plasmalyte):

To increase Potassium concentration to **20mmol/L**:

Take a **1 Litre** bag: add **7.5mL of KCl 15%** (15mmol of KCl to make total of 20mmol potassium per litre).

To increase Potassium concentration to **40mmol/L**:

Take a **1 Litre** bag: add **17.5mL of KCl 15%** (35mmol of KCl to make total of 40mmol potassium per litre).

\* The "148" in "Plasmalyte 148" refers to the total equivalence of positive ions:  $140 \text{ Na}^+ + 5 \text{ mmol K}^+ + 1.5 \text{ mmol Mg}^{2+} = 148$