

CELL COUNTING SOLUTIONS

Coulter Counter

1. 1% formal saline
9 gms NaCl)
10 ml formaldehyde) to one liter
2. Saponin - 10%
10 mg/ml 10 gm/liter of formal saline

Hemacytometer

1. 5 x Saline
45 gm/liter dist H₂O
2. Trypan Blue .2%
.2 gm/100 ml dist H₂O

To count cells add 1 part 5x saline, 4 parts trypan blue.

A. NEUTRAL BUFFERED FORMAL SALINE

100 ml	Formaldehyde (40%)
7.83 gm	Na ₂ HPO ₄ (anhydrous)
4.21 gm	NaH ₂ PO ₄ (anhydrous)
<u>x ml</u>	isotonic saline (.85% NaCl)
1000 ml	

Neutralize formalin with excess of MgCO₃ and dilute Formaldehyde mixture to q.s. 1000 ml with saline.

B. 10% NEUTRAL FORMALIN

100 ml	Formaldehyde
<u>900 ml</u>	Saline (.85% NaCl)
1000 ml	total

Neutralize formalin with excess MgCO₃ and dilute with saline.

C. FORMAL SALINE FOR COULTER COUNTS

Per liter	{9g NaCl
	{10ml Formaldehyde