

SOLUTIONS

<u>PTw</u>	Stock solutions	For 50 ml	For 500 ml
1X PBS	10X	5 ml	50 ml
0.1% Tween 20	10%	0.5 ml	5 ml
ultrapure water		to 50 ml	to 500 ml

<u>Proteinase K</u>	Stock solutions	For 5 ml	For 10 ml
50 ug/ml Proteinase K	10 mg/ml	25 ul	50 ul
PTw		to 5 ml	to 10 ml

<u>Glycine/PTw</u>		For 10 ml	For 50 ml
2 mg/ml Glycine		20 mg	100 mg
PTw		to 10 ml	to 50 ml

Hybridization buffer

50% Formamide
5X SSC
100 ug/ml yeast tRNA
50 ug/ml heparin
100 ug/ml herring sperm DNA
0.1% Tween 20

<u>10XTBST</u>	Stock solutions	For 250 ml
1.37 M NaCl		20 g
27 mM KCl		0.5 g
25 mM Tris-HCl pH 7.5	1M	62.5 ml
11% Tween 20		27.5 g

Tare a 400 ml glass beaker on the balance. Weigh out 27.5 g of Tween 20 by pouring into glass beaker. Add ~150 ml ultrapure water and mix gently on a magnetic stir plate until detergent is dissolved. Add salts and Tris solution. Mix until all components are dissolved. Bring volume to 250 ml with ultrapure water.

1XTBST

137 mM NaCl
2.7 mM KCl
2.5 mM Tris-HCl pH7.5
1.1% Tween 20

	Stock solutions	For 50 ml	For 500 ml
	10XTBST	5 ml	50 ml
	ultrapure water	45 ml	450 ml

<u>Block solution</u>	Stock solutions	For 10 ml	For 50 ml
1X TBST	10X TBST	1 ml	5 ml
5% HINGS	100%	0.5 ml	2.5 ml
1 mg/ml BSA		10 mg	50 mg
ultrapure water		to 10 ml	to 50 ml

<u>NTMT</u>	Stock solutions	For 10 ml	For 50 ml
100 mM NaCl	5 M	0.2 ml	1 ml
50 mM MgCl ₂	1 M	0.5 ml	2.5 ml
100 mM Tris, pH 9.5	1 M	1 ml	5 ml
0.1% Tween 20	10%	0.1 ml	0.5 ml
1 mM Levamisole	100 mM (in water)	0.1 ml	0.5 ml
ultrapure water		to 10 ml	to 50 ml

<u>Staining Solution</u>		For 5 ml	For 10 ml
NBT		22.5 ul	45 ul
BCIP		17.5 ul	35 ul
NTMT		to 5 ml	to 10 ml