

TABLE III

Optimal concentrations of salts and polyamines

Optimal concentrations of salt and polyamines. The effect of addition of Mg^{2+} and NH_4^+ ion was assayed in a total volume of 200 μ l containing 0.1 M Tris-HCl, pH 8.0, 1 mM dithiothreitol, 0.1 mM EDTA, 182 μ M bulk tRNA prepared from strain IB1111 grown at high temperature (43.5 °C), 107 μ M AdoMet and 0.12 μ g of enzyme (Fraction IX). The effect of addition of spermidine and putrescine was assayed in a total volume of 100 μ l containing 0.1 M Tris-HCl, pH 8.5, 1 mM dithiothreitol, 0.1 mM EDTA, 180 μ M bulk tRNA prepared from strain IB1111 grown at high temperature (43.5 °C), 39 μ M AdoMet and 0.06 μ g of enzyme (Fraction IX).

Additions	Methyl group incorporation	
	<i>mM</i>	%
None		100
KCl	100	88
	500	35
NaCl	100	83
	500	28
NH_4Cl	50	100
	150	100
	250	66
$MgCl_2$	2	93
	6	72
	10	70
Spermidine	2	122
Putrescine	6	121