Table 10.2 Basic Method 1: Calculations for Preparation of Nutrient Diffusing Substrata

Date Project											
Stream Investigators											
(A)	(B)	(C)	(D)	(E)	(F)	(H)	(I)	(\mathbf{J})	(K)	(L)	(M)
						g salt A per					total volume
	1. 4	1. 5	weight	weight	desired	L agar	L agar	/ * 1 .*	total number	.	solution
target nutrient	salt A	salt B	salt A	salt B	molarity (M)		solution	g agar/L solution		mL/cup	needed (L)
NH ₄ ⁺ -N	NH ₄ Cl		53.5		0.5	26.7		20	5	30	0.15
NO_3 -N	KNO_3		101.1		0.5	50.6		20		30	
NO ₃ -N	NaNO ₃		85		0.5	42.5		20		30	
PO ₄ ³⁻ -P	KH ₂ PO ₄		136.1		0.5	68		20		30	
NH ₄ ⁺ -N and	NH ₄ Cl	KH ₂ PO ₄	53.5	136.1	0.5	26.7	68	30		30	
NO ₃ -N and	KNO ₃	KH ₂ PO ₄	101.1	136.1	0.5	50.6	68	30		30	
NO ₃ -N and	NaNO ₃	KH ₂ PO ₄	85	136.1	0.5	42.5	68	30		30	
Calculation						D*F	E*F				(K*L)/1000
Explanation					0.5 M unless specific change			when adding two nutrients, an additional 10 g/L of agar should be dissolved into solution	generally 5 reps per	volume of agar solution to fill each Polycon cup	