

TABLE 3B

SNB 19 Cells	Delivery 3498	Comments 3498	T'fection Time	Delivery 3498PS	Comments 3498PS	T'fection Time	Delivery 3793-2	Comments 3793-2	T'Fection Time
<u>Commercial Lipids</u>									
Transfectam	5	very bright	5 hr	varies		5 hr	4, 5		5 hr
Lipofectamine	4		5 hr	4*	many, dim	5 hr	4, 5	better than TFA	5 hr
Lipofectin	1		5 hr	4*		5 hr	1	very dim	5 hr
Celfectin	3		5 hr	3*		5 hr		very dim	5 hr
<u>Genta Chemistry Lipids</u>									
1-1D/Lipid A	1.5		5 hr	0.5		5 hr			
2	3	dim	5 hr	2*	few cells	5 hr	2	dim	5 hr
2/Lipid A	3.5		5 hr	1		5 hr	3, 2	toxic?	5 hr
2/Lipid B	3	bright	4.5 hr	3*	toxic	5 hr			
2/Lipid C	1, 2		4.5 hr	3*	toxic	5 hr			
1-3	5		6 hr,	4*, 5*	dim	6 hr,	4, 5 ++199		5 hr
			5 hr			5 hr			
1-3/Lipid A	4		5 hr	3*	dim	5 hr	4	toxic?	5 hr
1-3/Lipid B	5		4.5 hr	5*		5 hr			
1-3/Lipid C	5		5 hr	5*		5 hr			

*= 9:1
lipid:oligo

TABLE 3C

LOX Cells	Delivery 3498	Comments 3498	T'fection Time	Delivery 3498PS	Comments 3498PS	T'fection Time
<u>Commercial Lipids</u>						
Transfectam	3		5 hr			
Celfectin	0		5 hr			
Lipofectin	0		5 hr			
<u>Genta Chemistry Lipids</u>						
2/Lipid A	3		5 hr			
1-3	2		5 hr	0*		5 hr
1-3/Lipid A	2		5 hr			

*= 9:1
lipid:oligo

TABLE 4

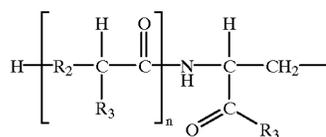
Cell line	Lipid	CAT ^a cpm/ug ave.	SDV
SNB-19	Lipofectin	742	72
	1-3	829	43
	1-3/Lipid A	665	1

We claim:

1. A compound of the formula



wherein Z is



wherein

(a) n is 0, 1 or 2;

(b) R₁ is hydroxy, a glyceryl moiety or a lipophilic moiety;

(c) R₂ is

(i) —NH—[alk₁—NH]_{n1}— wherein n1 is an integer from 0 to 2 and alk₁ is an alkylene group of 2 to 6 carbon atoms;

(ii) —[W₁]_{n2}— wherein n₂ is an integer from 0 to 3 and each W₁ is an independently selected amino acid residue;

(iii) —N(R₄) (alk₂-) wherein R₄ is hydrogen, alkyl of 1 to 18 carbon atoms optionally mono-, di- or tri-substituted with Y₁, Y₂ and/or Y₃; alkenyl of 2 to about 12 carbon atoms, aryl of about 6 to 14 carbon atoms and aralkyl of about 7 to about 15 carbon atoms and alk₂ is a straight chained or branched chain alkylene group of 1 to 18 carbon atoms optionally mono-, di- or tri-substituted with Y₁, Y₂ and/or Y₃ where Y₁, Y₂ and Y₃ are independently selected from the group consisting of arylamine of 5 to about 10 carbon atoms, aralkylamine of 5 to about 10 carbon atoms, heterocyclic amine, fluorine, a guanidinium moiety, an amidinium moiety, —NH₂, —NHR₁₀, —NR₁₀R₁₁, and —N(R₁₀R₁₁R₁₂) wherein R₁₀, R₁₁ and R₁₂ are as defined hereinbelow;