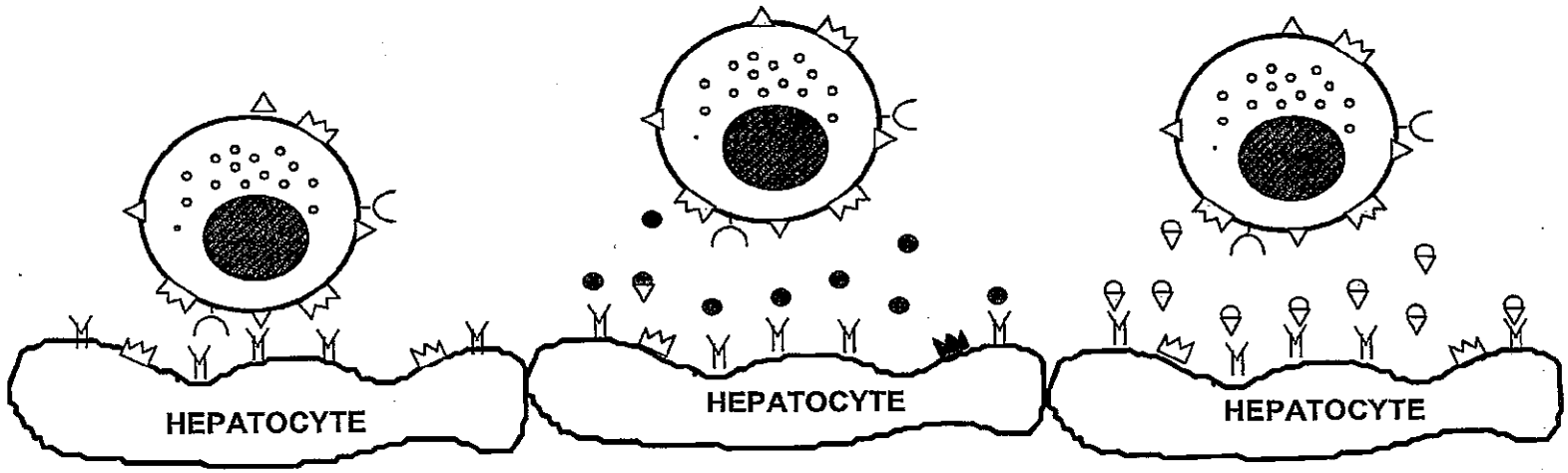
MODEL: Liver Entrapment of Bone Marrow Stem Cells & Lymphocytes



KEY TO DIAGRAM

ASIALOGLYCOCONJUGATE
Example:
- asialofetuin (ASF)
- asialoorosomucoid (ASO)

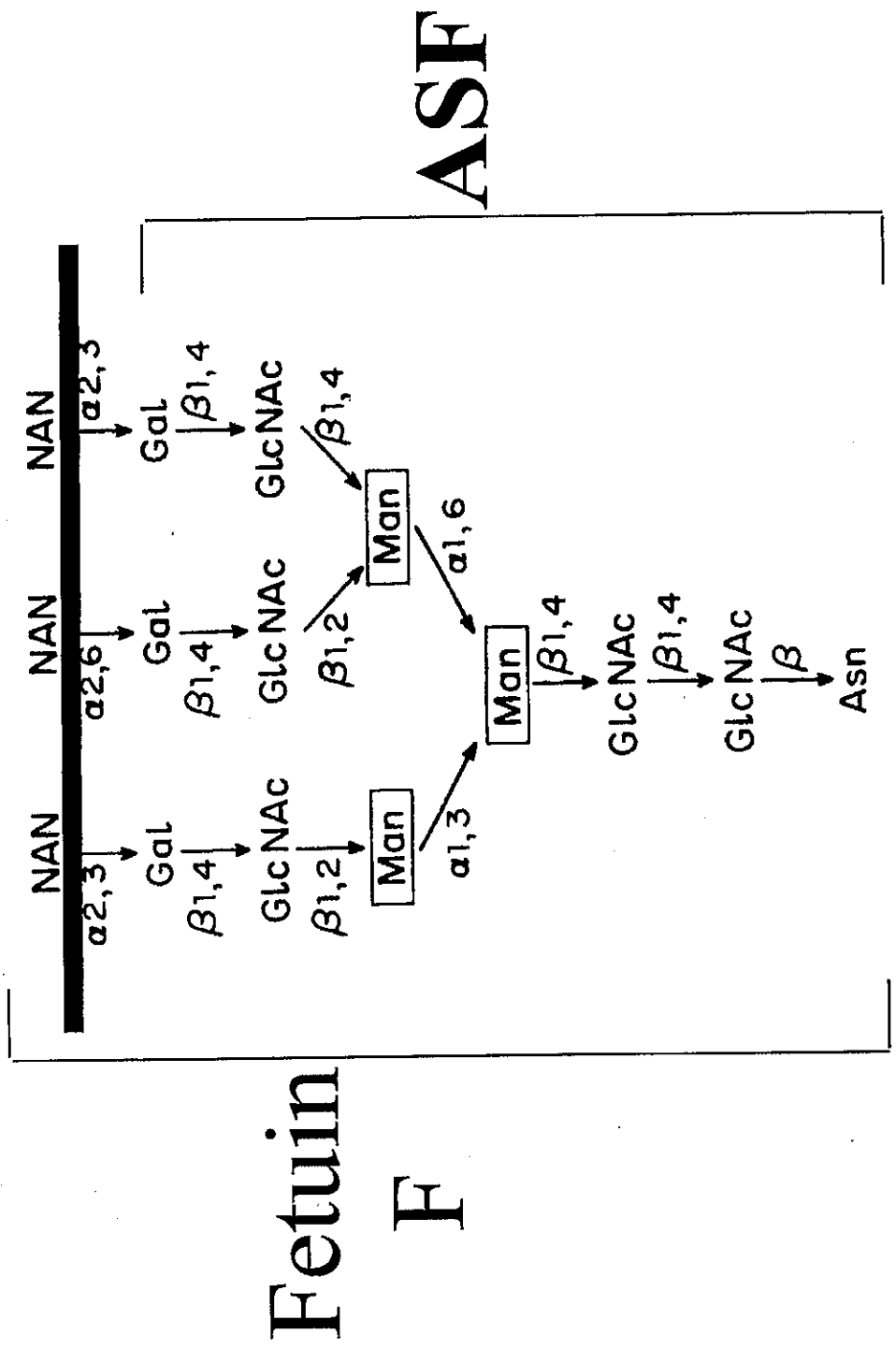
GLYCOCONJUGATE
Example:
- fetuin (F)
- orosomucoid(O)

ASIALODETERMINANT

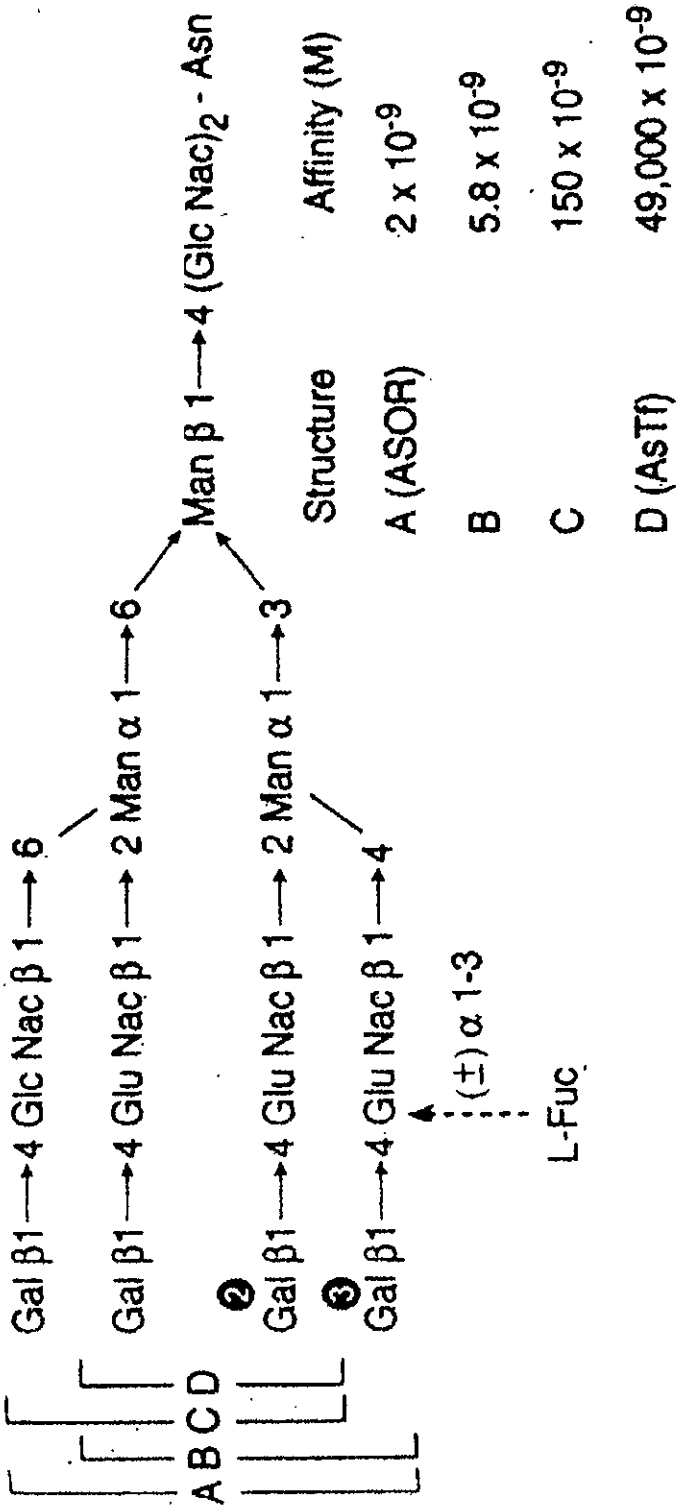
BLOOD CELL RECEPTOR for tumor epitope or cytokines, etc.

ASIALOGLYCOPROTEIN RECEPTOR (ASGPR)

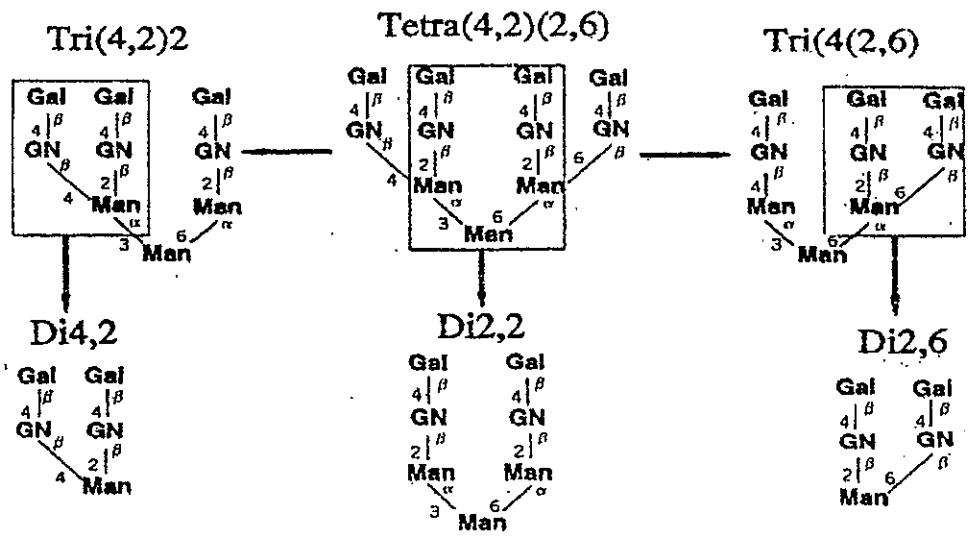
GENERIC ADHESION MOLECULE


Fetuin
F
ASF
NAN
NAN
NAN
α2,3
α2,6
α2,3
Gal
Gal
Gal
β1,4
β1,4
β1,4
GlcNAc
GlcNAc
GlcNAc
β1,2
β1,2
β1,4
Man
Man
Man
α1,3
α1,6
β1,4
GlcNAc
β1,4
GlcNAc
β
Asn

Comparative Binding Affinities of Asialoglyconjugates for the ASGPR

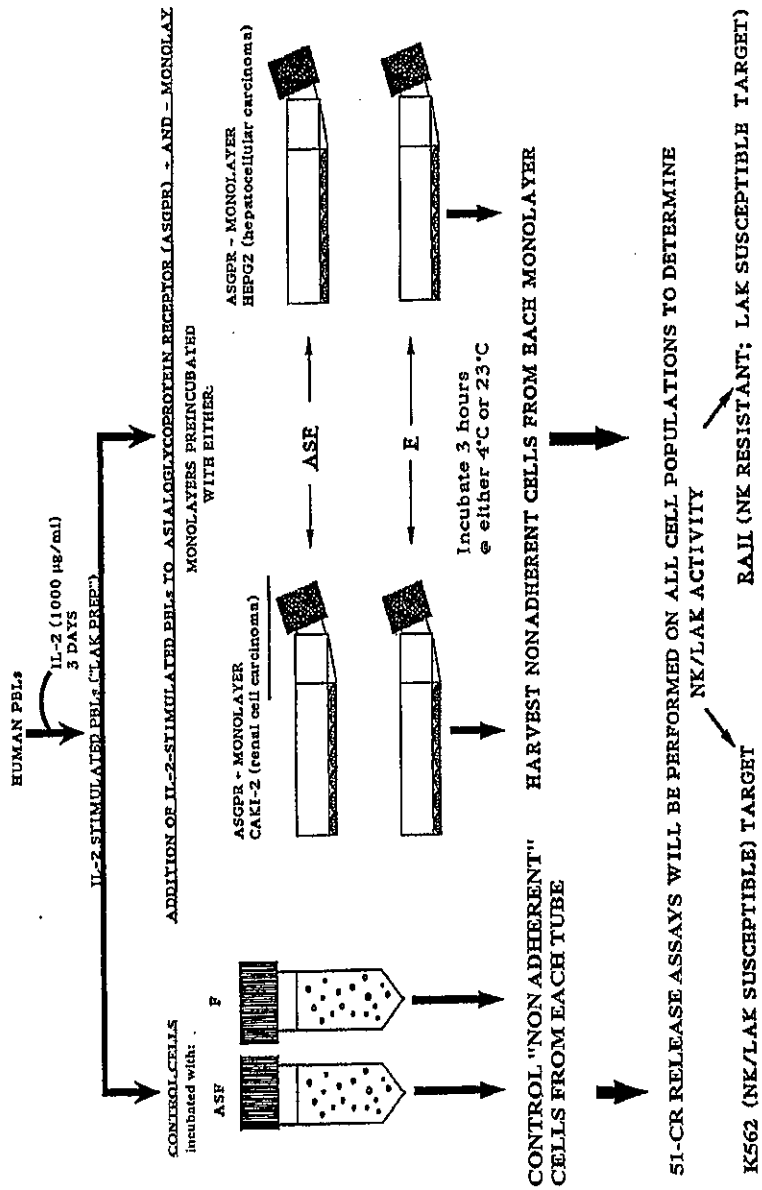


Saccharide Structure vs. Relative Affinity



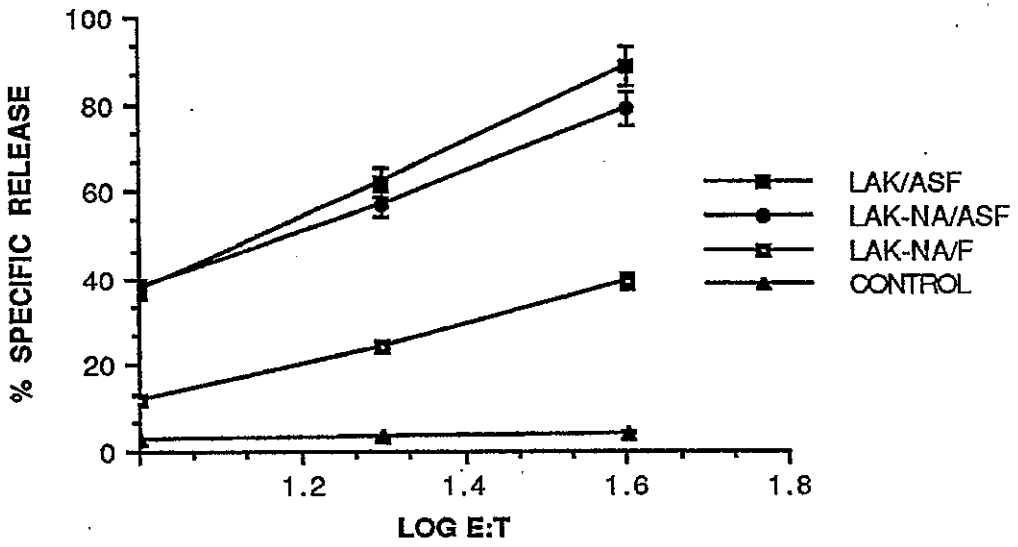
Saccharide Structure	*Relative Affinity*
Galactose	1
Di2,2	20
Di2,6	220
Di4,2	3,700
Tri4(2,6)	6,900
Tri(4,2)2	135,000
Tetra(4,2)(2,6)	295,000

Adherence experiment:



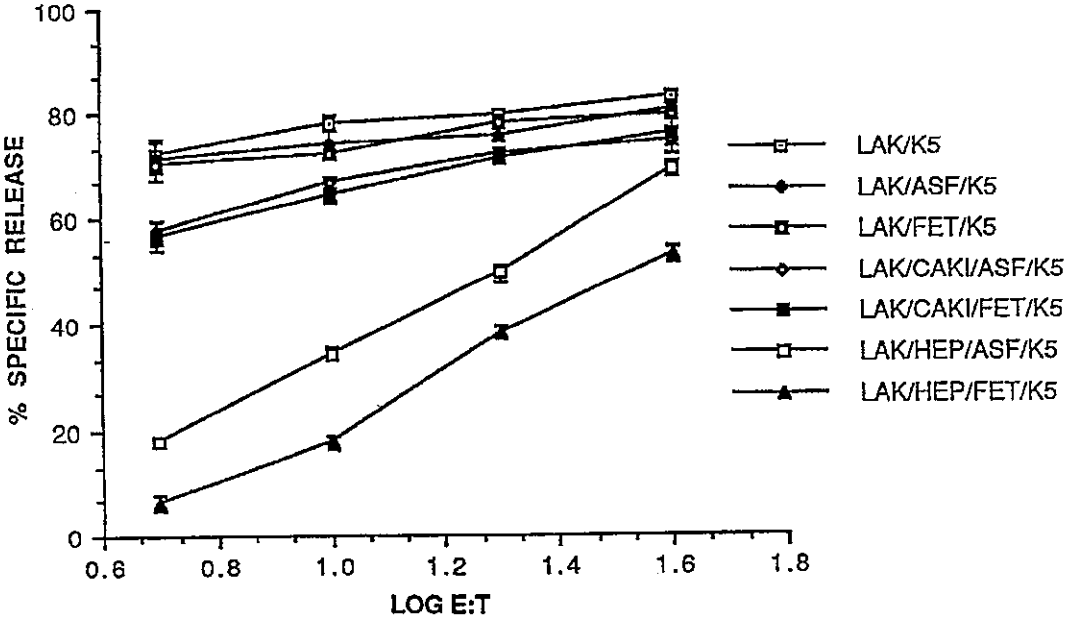
Adherence Experiment: Data

At 4°C, ASF inhibits adherence of LAK activity to HEPG2 monolayer; whereas F does not.



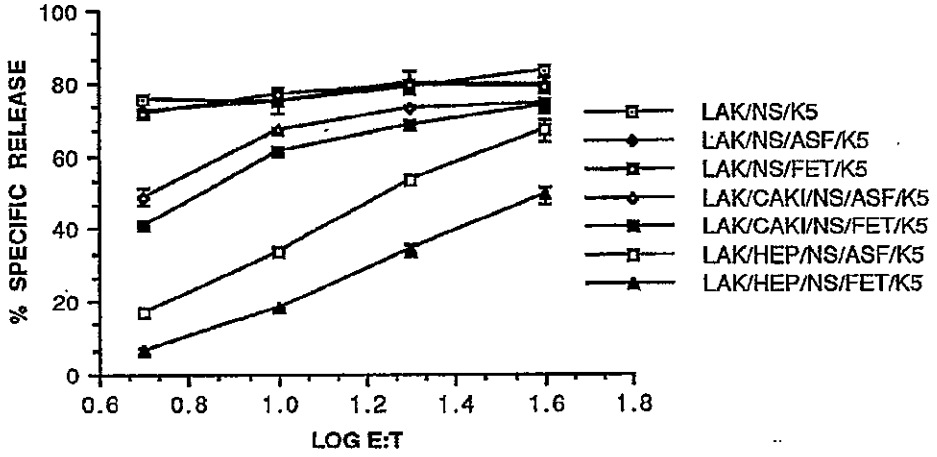
Adherence experiment: Data

At 23°C, ASF partially inhibits adherence of IL-2-activated NK activity to HEPG2 monolayer whereas F does not.

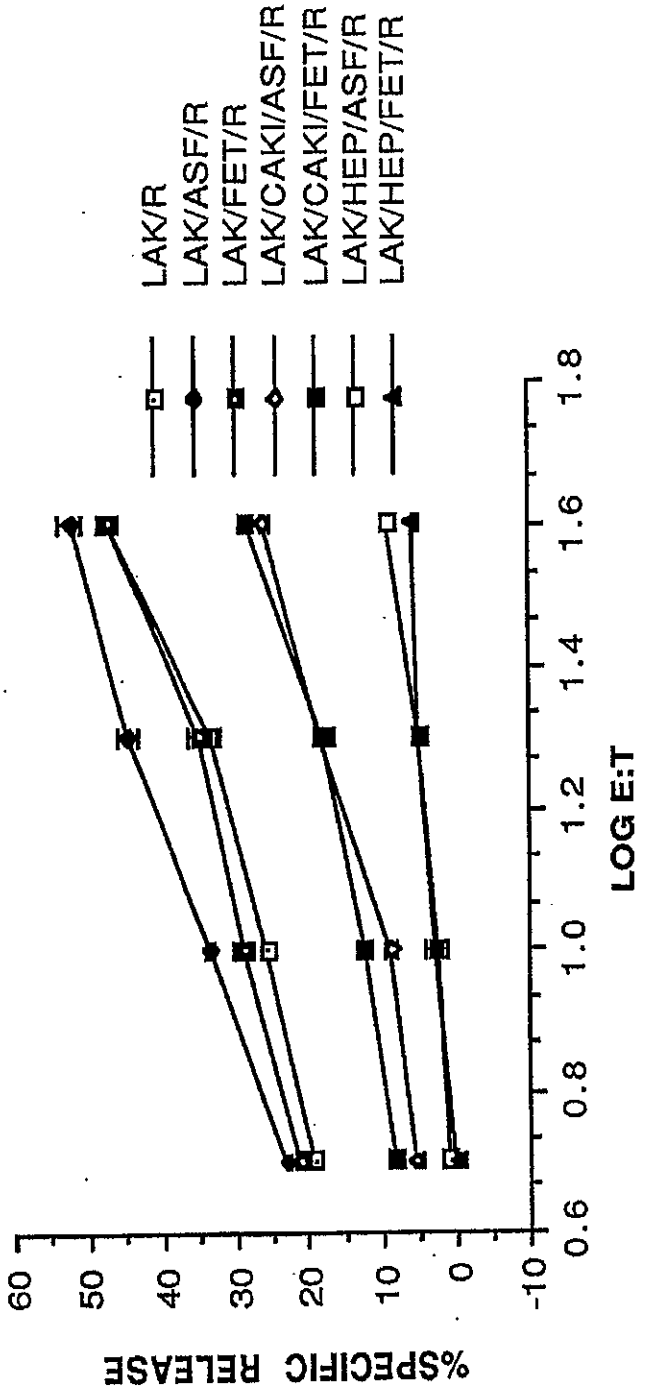


Adherence experiment: Data

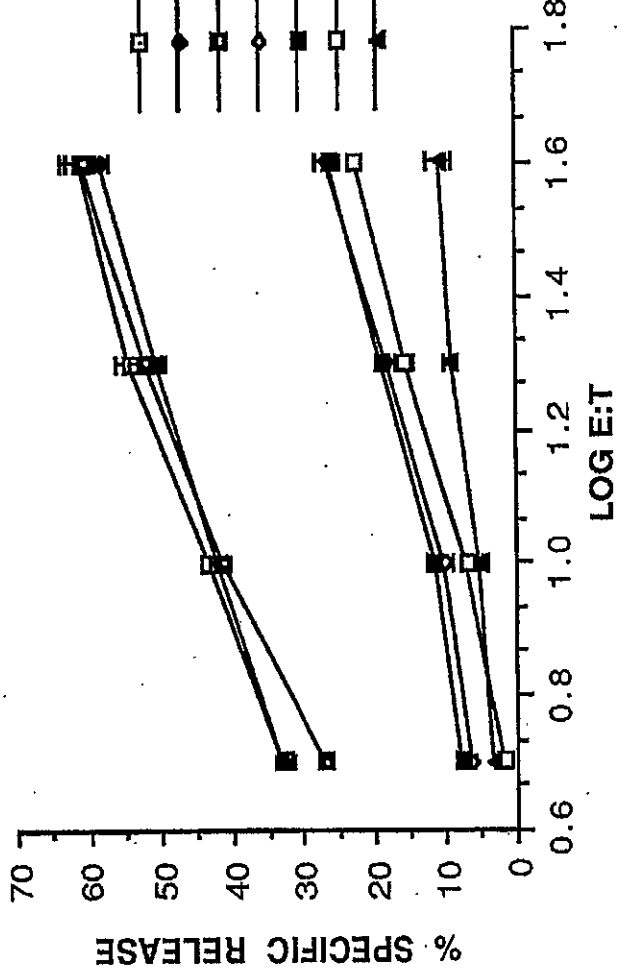
At 23°C, ASF partially inhibits adherence of IL-2-activated NK activity (in the neuraminidase-treated LAK preparation) to HEPG2 monolayer; F does not.



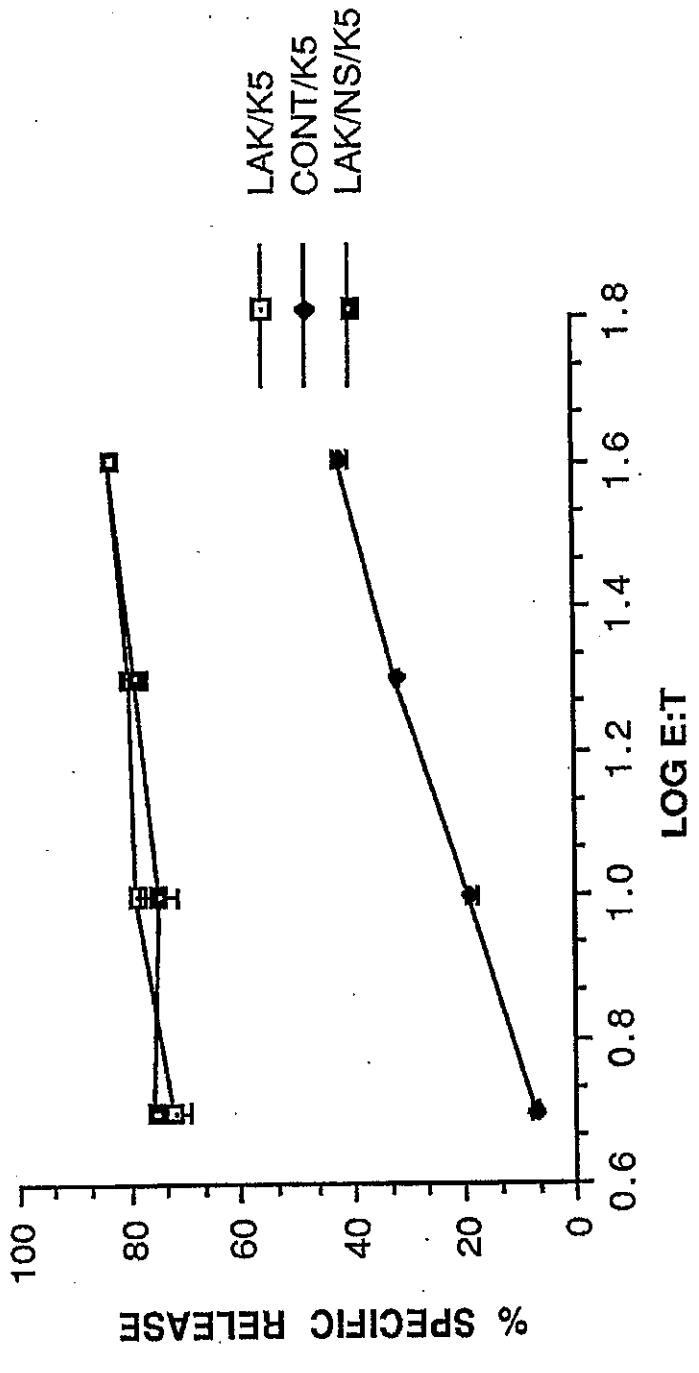
Adherence experiment: Data

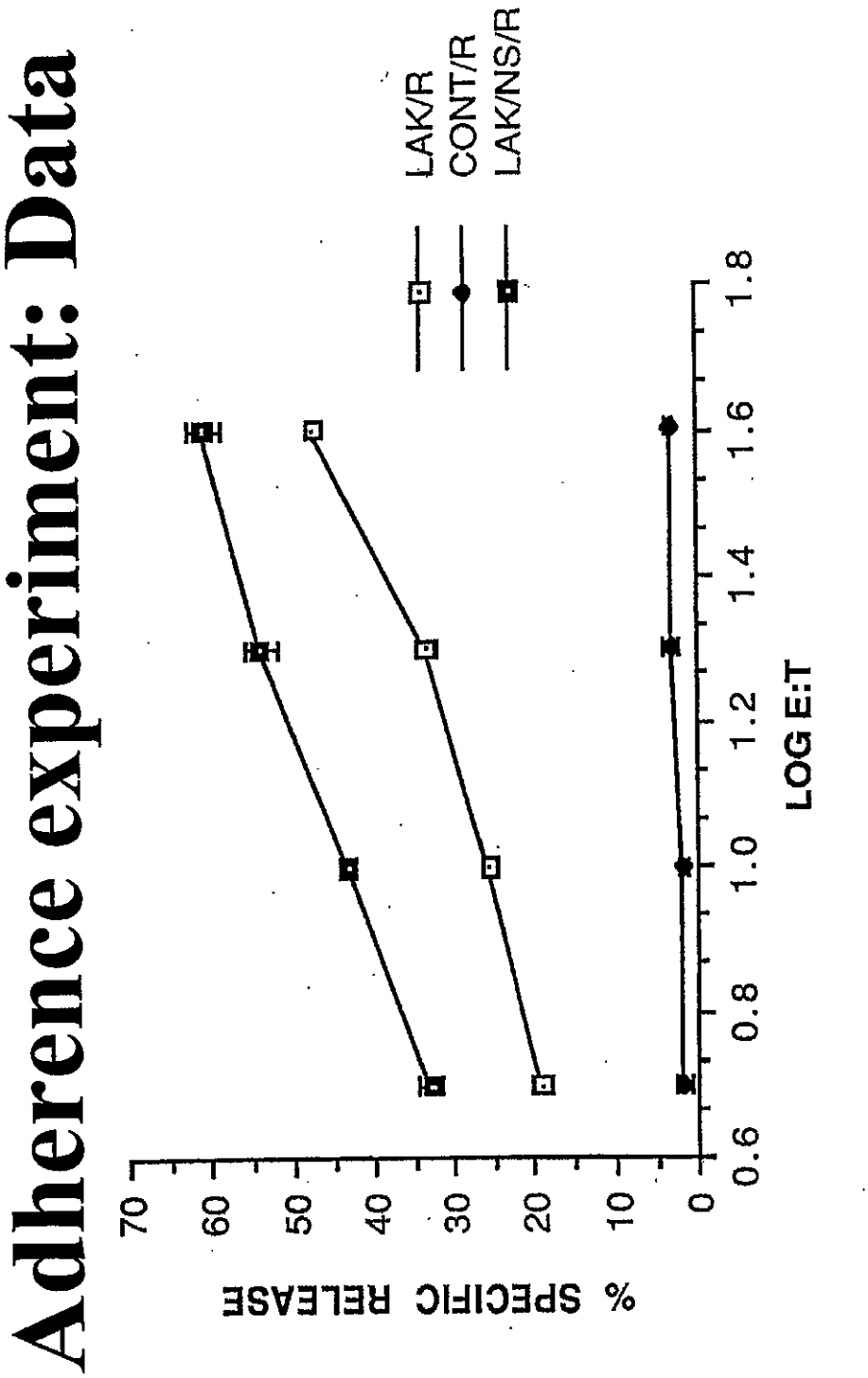


Adherence experiment: Data

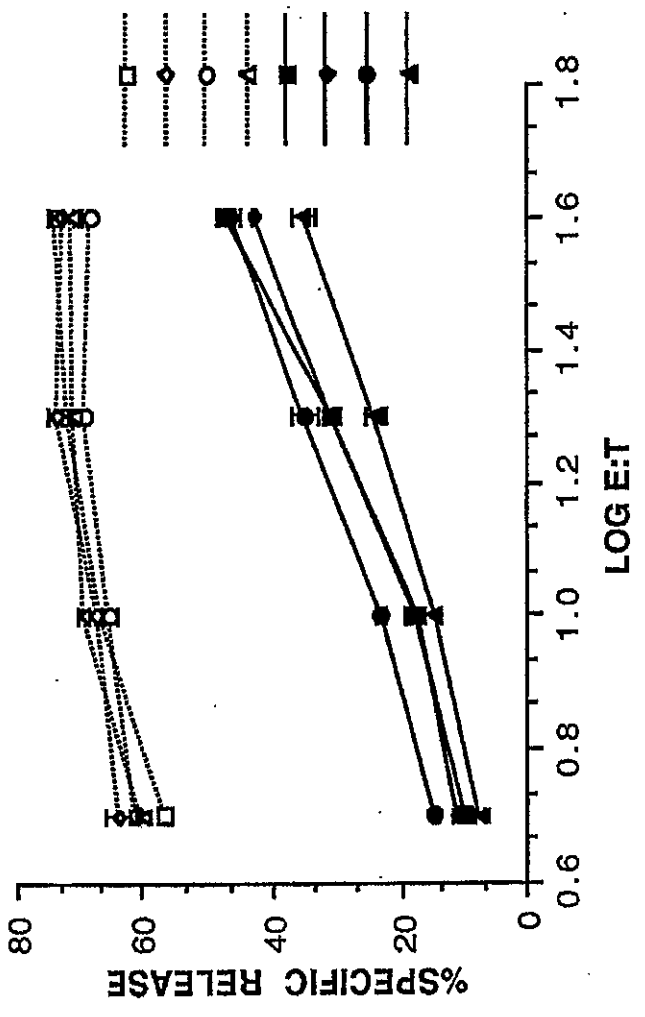


Adherence experiment: Data

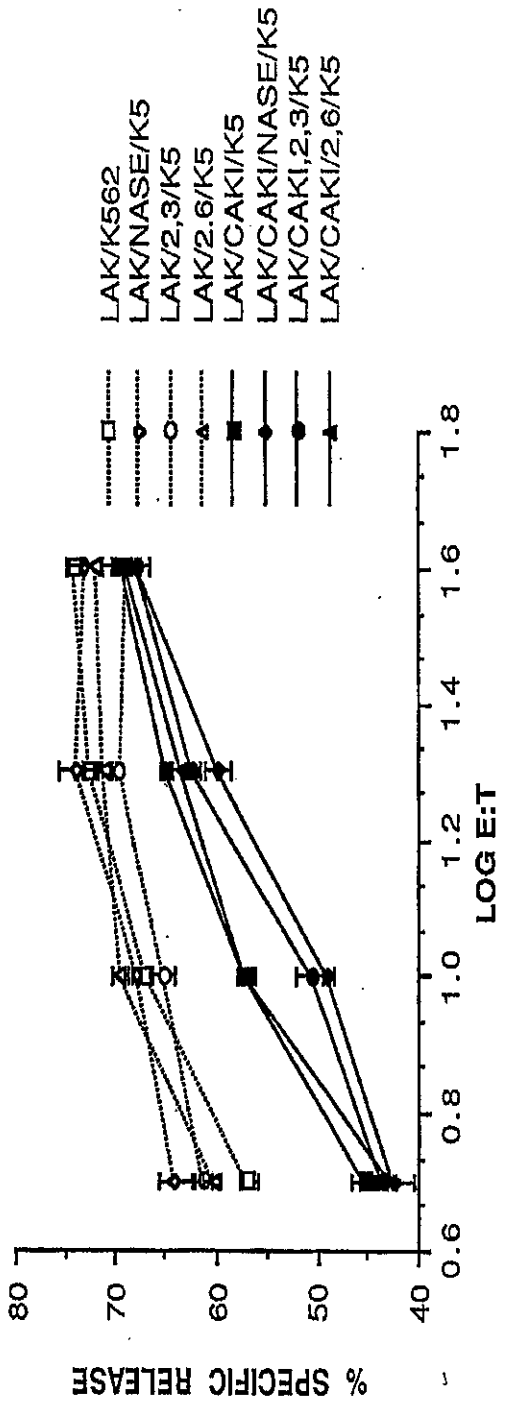



Adherence experiment: Data
% SPECIFIC RELEASE
70
60
50
40
30
20
10
0
0.6
0.8
1.0
1.2
1.4
1.6
1.8
LOG E:T
LAK/R
CONT/R
LAK/NS/R

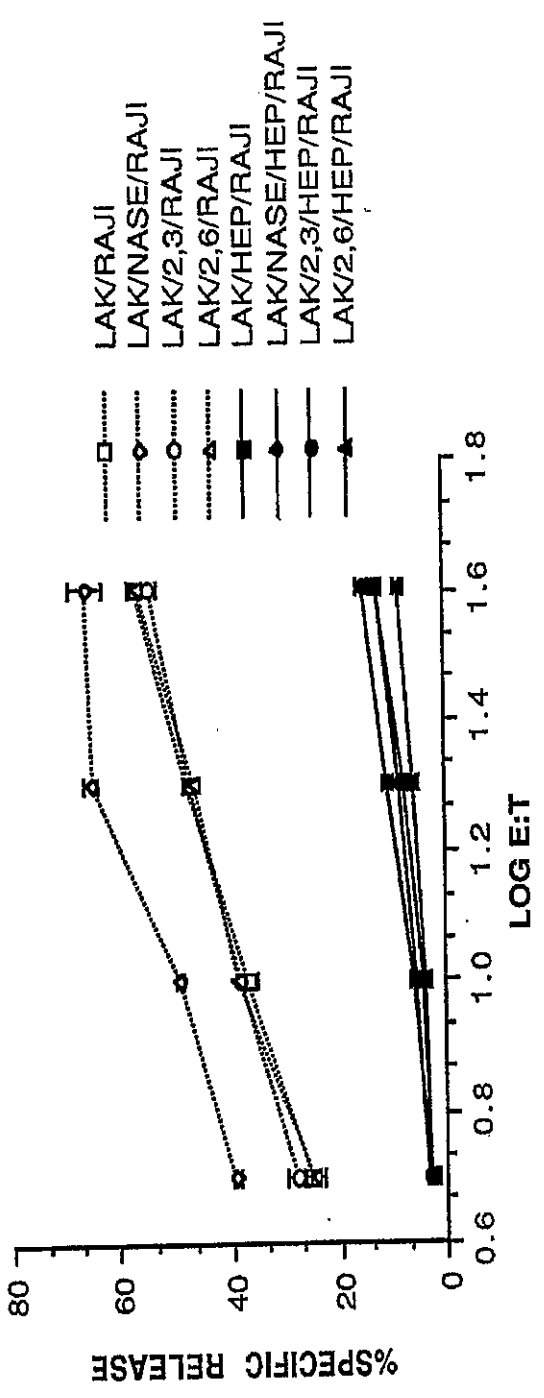
Adherence experiment: Data



Adherence experiment: Data



Adherence experiment: Data



Adherence experiment: Data

