THE QUADRANGLE CLUB

Allerine prop. le caux. ut os gruftet 500 mgm/ 1.25 x 3 18 = 4.85 10/h 1.25 x 3,8 = or about 4 home makeral rake T = 5.3km Thrano Urasi (Thymine) 7 JANAN herned [Falic acid] Thydrax [wrant] 5 funior [bolicaris theis 2-6 Danier or Hepnin] found of sugres 2 punice [asterine Wergend enters muleic acold C. lacely parametrine [1:7] /7 method " I aro grami me (very little mlubbe) bypoxan Hine Bougherby Many in 10 ml Mymine) Adamile and 100 sugna fliter Enfrom budok of many cuffein Dr. H. H. Hetchings rast- chrony-Wellcome Research Take mus breaks-Tuckahoe, 7, ny. Fred Phillips flaan lidke. befolie arsera my knows about it.

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Biology

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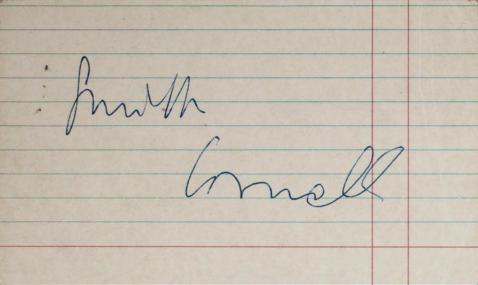
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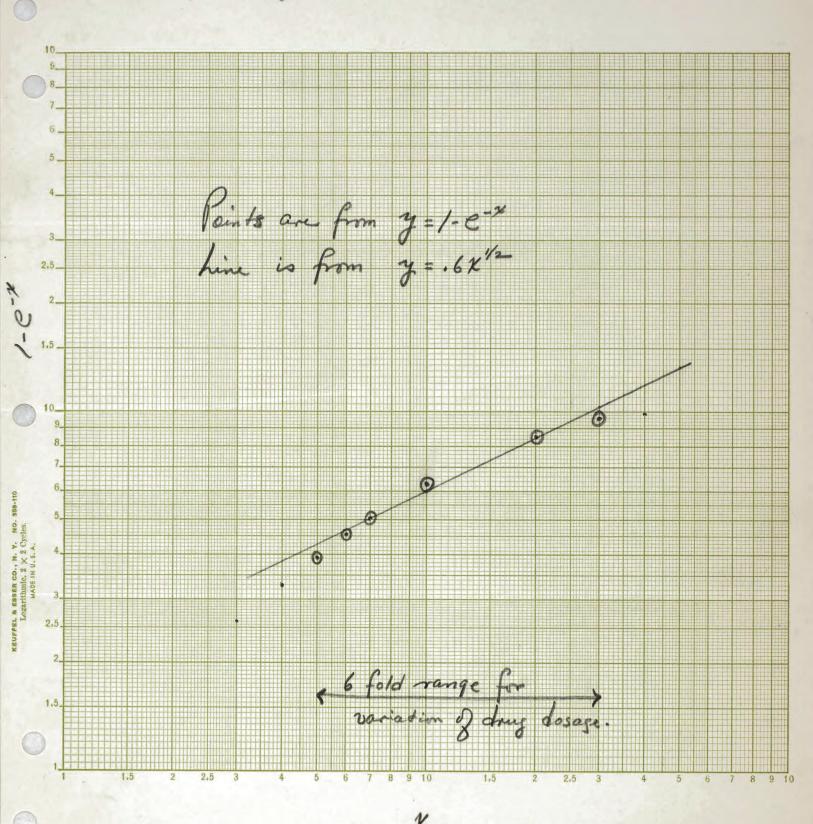


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Gapproximation of an exponential function by a power of x over a limited range.



3.0 g. 48-14 2,6-diaminopurine

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3.0 g. 45-69 5-bromo uracil

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Desoxyribonucleic Acid
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(Barium)
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PROTAMINE SULFATE

Protamines are sometimes referred to as the simplest of all proteins. However, many prefer to use the general name of Protamine for the soluble polypeptids of nuclei which are strongly basic in reaction, soluble in water, heat uncoagulable and composed of only several amino acids, mainly the basic ones.

Protamines from individual species are identified as salmine, clupeine, sturine and scombrine.

TYPICAL ANALYSIS NBCo PROTAMINE SULFATE

Nitrogen 22.8% Sulfate 16.6% Moisture 3.5%

GENERAL PROPERTIES:

Strongly basic.

Soluble in water. Insoluble in alcohol and ether. Gives pink biuret color. Negative to

Millon and Hopkins Cole Test.
On hydrolysis yields only a few amino acids, mainly arginine which usually accounts for 90% of the nitrogen content. Other amino acids reported as being present in protamine are: alanine, histidine, isoleucine, lysine, proline, serine and valine.

Isolectric point 9.6 to 12.4. Influenced and increased by increase of the arginine content.

Protamines are optically active. Specific Rotation—81° which falls on racemization or hydrolysis.

Protamines precipitate basic proteins from aqueous solution by combination (casein, albumen, globulin, gelatin). These combinations are, however, soluble in saline and alkaline

Protamines form precipitates with heparin and cephalin. They are precipitated by alkaloids at neutral pH. Stable salts are formed with mineral acids.

Protamines are hydrolyzed by protaminases, trypsin-kinase and papain HCN. They are not hydrolyzed by the erepsin or pepsin type of

proteases.

Protamines act as anticoagulants since they inactivate heparin. They cause flocculation and hemagglutination. It has been reported that protamines synergize the bactericidal action of

detergents.

The toxicity of protamine-casein combinations is negligible. Intravenously and intraperitonealy protamines are toxic at 40-120 mg. per kilo levels, 100-150 mg. per kilo is the sub-

cutaneous MLD for rabbits and mice.

Protamines exhibit antibiotic and bacteriostatic effects. E. typhi being inhibited by 1:5,000 solution. E. coli at 1:25,000. S. aureus at 1:50,000. Trypanasomes at 1:80,000. L. arabinosus at 1:85,000. The antibiotic effect is enhanced by urea. Several gram negative bacteria have reportedly been sensitized by protamines to react to compounds previously affecting only gram positive organisms.

See page 4 for Protamine Sulfate Quotations.



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		bottle		11.50			
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25	gram	bottle	gm.	3.25			
5	gram	bottle	gm.	3.65			
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25	oram	bottle	om	2.20			
10	grain	DOLLIE	PIII.	4.40			
5	gram	bottle	gm.	2.65			
1	gram	bottle	gm.	3.15			
ADENYLIC	CACI	bottle bottle O (Adenosine-	5-Phos	phoric)			
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i	gram	bottle	gm.	35.00			
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1	gram	bottle	gm.	7.30			
COZYMA	SE (CC	bottle bottle DENZYME I)					
1	gram	bottle	gm.	82.50			
100	mg.			8.50			
CYTIDINE							
1	gram	bottle	gm.				
500	mg. a	mpule	-	8.00			
CYTIDINE	SULF	ATE					
1	gram	bottle	gm.	13.00			
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25	gram	bottle	gm.	.14			
		OSPHATE (Ba					
5	gram	bottle	gm.	2.50			
		bottle		2.90			
GLUCOSE	-1-PH	OSPHATE (Pote	assium				
5	gram	bottle	gm.	4.50			
		bottle	gm.	4.75			
GLUTATH							
5	gram	bottle	gm.	5.00			
1	gram	bottle	gm.	5.50			

Page 2

NUCLEO



PROTEINS PYRIMIDINES

GUANINE	
25 gram bottle	gm75
25 gram bottle. 5 gram bottle. GUANINE HYDROCH	gm90
GUANINE HYDROCH	LORIDE
25 gram bottle. 5 gram bottle	gm60 gm70
GUANOSINE GUANOSINE	gm
25 gram bottle	gm. 2.35
5 gram bottle	gm. 2.90
1 gram bottle	gm. 3.00
CHANIVIIC ACID	
25 gram bottle	gm. 2.35
5 gram bottle	gm. 2.90
1 gram bottle	gm. 3.00
HEXOSE DIPHOSPHAT	E (Fructose-1-0-
Diphosphate)	70
5 gram bottle	gm70
HYPOXANTHINE 25 gram bottle	gm. 4.50
25 gram bottle	gm. 4.75
1 gram bottle	gm. 5.75
INIOSINE	
5 gram bottle	gm. 9.25
1 gram bottle	gm. 9.50
25 gram bottle	gm27
10 gram bottle	gm30
NUCLEATES, Iron, M	anganese
10 gram bottle	gm15
NUCLEIC ACID (Ribo	se Nucleic Acia)
100 gram bottle	gm09
25 gram bottle 10 gram bottle	gm10
PHOSPHOGLYCERIC	ACID
5 gram bottle	gm70
5 gram bottle PROTAMINE NUCLEII	NATE
100 gram bottle	gm25
5 gram bottle	gm36
d RIBOSE	
25 gram bottle	gm. 1.75
10 gram bottle 1 gram bottle	gm. 1.85 gm. 2.00
SODIUM NUCLEATE	gm. 2.00
10 gram bottle	gm10
SODIUM DESOXYRIB	ONUCLEATE
1000 gram bottle	gm09
100 gram bottle	gm11½
25 gram bottle	gm14
AMMONIUM URIDYL	ATE
1 gram bottle	gm. 14.00
THYMINE (5 METHY	. URACIL)
100 gram bottle	gm15
50 gram bottle 10 gram bottle	gm20 gm28
5 gram bottle	
URACIL	g
100 gram bottle	gm12
25 gram bottle	gm15
5 gram bottle	
URIDINE	
5 gram bottle	gm. 5.50
1 gram bottle	gm. 5.75
The second secon	20.3

Page 3

NUCLEO PURINES



PROTEINS PYRIMIDINES

URIDYLIC	ACID			
1	gram	bottle	gm.	18.50
500	mg. a	mpule		9.50
URAMIL		•		
5	gram	bottle	gm.	.60
XANTHIN		20000	0	1000
		bottle	om	.70
25	gram	bottle	om.	.90
10	gram	bottle	om.	.95
1	gram	bottlebottle	em.	1.50
XANTHO!	SINIE	D00010	8****	
		bottle	gm.	7.75
	RELA	TED MAT	ERIALS	H
NAPTHOR				
25	gram	bottle	gm.	3.20
		bottle		3.75
1	gram	bottle	gm.	3.90
THIOURA	CIL			
		bottle	gm.	.021/
50	gram	bottle	gm.	.03
6 METHY	LTHI	OURACIL		
100	oram	bottle	om.	.06
			gm.	.10
PPOPVI	LHIOII	RACIL	8	
100	mom	bottle	om.	.11
25	gram	bottle	gm.	.15
PROTAMI			gm.	.10
THE RESERVE TO SERVE THE		the second second second	-	0.5
			gm.	
			gm.	
25	gram	bottle	gm.	
		bottle	gm.	.70
I SORBO				001
1000	gram	bottle	gm.	.031/
			gm.	
25	gram	bottle	gm.	.05

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