

As noted in the July Newsletter, the Protein Data Bank is experiencing a substantial increase in the number of newly deposited structures. The recent release of DATAPRTP includes 318 atomic coordinate entries, with 27 new entries in preparation, as listed in Table 6 on page 4. Please watch for availability of these new entries in future numbers of the Newsletter.

As usual, the start of the new fiscal year brings a new Protein Data Bank price schedule, with small increases to allow for increased operating costs. The new prices are indicated on the order form on pages 5-6. Users will also note that distribution of 800 cpi density tapes has been discontinued.

At the Perth International Union of Crystallography Congress held in August, publication of a new book entitled "Crystallographic Databases: Information Content, Software Systems, Scientific Applications", was announced by the IUCr Data Commission. This volume provides a concise overview of the crystallographic databases, including the Protein Data Bank, and also covers integrated systems for database manipulation. Copies may be purchased from the International Union of Crystallography Offices, 5 Abbey Square, Chester CH1 2HU, England.

Inquiries may be addressed to any of the persons listed below. The order form on pages 5-6 of this newsletter may be used to order data from Brookhaven. Please note that this form should be used only for Brookhaven orders; users in Japan or Australia should contact their centers for detailed information.

<u>Area</u>	<u>Address of Center</u>	<u>Name</u>	<u>Phone</u>
Worldwide except Australia and Japan	Protein Data Bank Chemistry Department Brookhaven National Laboratory Upton, New York 11973, USA (BITNET address: ABOLA@BNLDAG)	Data Bank Inquiries E. E. Abola F. C. Bernstein S. H. Bryant T. F. Koetzle J. C. Weng	516-282-4382 516-282-4383 516-282-4382 516-282-4375 516-282-4384 516-282-4382
Australia	CSIRO Central Information Service P. O. Box 89, East Melbourne Victoria 3002, Australia	T. Graddon	03-418-7266
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2, Suita, Osaka 565, Japan	Y. Katsube K. Yoshida	(06) 877-5111 ext. 3912

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TABLE 5. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS
15-OCT-87

Table with columns: IDENT CODE, MOLECULE, DEPOSITOR(S), DATE/STATUS. Lists protein entries such as 4APE ACID PROTEINASE (ENDOTHTIA PARASITICA) T. BLUNDELL, 2APP ACID PROTEINASE (PENICILLIUM HETANELLUM) S. STELECKI, etc.

continued from Page 3

4TNA	TRANSFER RNA(YEAST,PHE)	A.JACK,J.LADNER,A.KLUG	4/78
6TNA	TRANSFER RNA(YEAST,PHE)	S.-H.KIM ET AL.	11/78
1TRA	TRANSFER RNA(YEAST,PHE)	M.SUNDARALINGAM ET AL.	5/86 R
1T1M	TRIOSE PHOSPHATE ISOMERASE	I.WILSON,D.PHILLIPS	9/76
2TMA	ALPHA TROPOMYOSIN	G.PHILLIPS JR.	4/81 A
2TNC	TROPONIN-C(CHICKEN)	M.SUNDARALINGAM	4/87 A
2TNC	TROPONIN-C(TURKEY)	O.HERZBERG,M.JAMES	2/85 A
2PTN	TRYP SIN(ORTHO RHOMBIC,2.4M (NH4)2SO4)	J.WALTER,R.HUBER,W.BODE	10/81
1TFO	TRYP SIN(ORTHO RHOMBIC)	W.BODE,J.WALTER,R.HUBER	9/82
3PTN	TRYP SIN(TRIGONAL,2.4M (NH4)2SO4)	J.WALTER,R.HUBER,W.BODE	10/81
3PTB	TRYP SIN(BENZAMIDINE INHIBITED)	W.BODE,P.SCHWAGER,J.WALTER	9/82
1TPP	TRYP SIN(P-AMIDINO-PHENYL-PYRUVATE	J.WALTER,W.BODE,R.HUBER	9/82
3PTP	TRYP SIN(DIP INHIBITED)	J.CHAMBERS,R.STROUD	12/77
4PTI	TRYP SIN INHIBITOR(BOVINE,PANCREAS)	R.HUBER,J.DEISENHOFER	9/82
5PTI	TRYP SIN INHIBITOR(BOVINE,XRAY-NEUTRON)	A.WLODAHER,R.HUBER	10/84
6PTI	*TRYP SIN INHIBITOR(FORM III,BOVINE)	A.WLODAHER	5/87
2PTC	TRYP SIN/TRYPSIN INHIBITOR COMPLEX	R.HUBER,J.DEISENHOFER	9/82
1TPA	TRYP SIN(ANHYDRO)/TRYPSIN INHIBITOR	HUBER,BODE,DEISENHOFER	9/82
1TGN	TRYPSINOGEN	A.KOSSIAKOFF,R.STROUD	9/79
2TGA	TRYPSINOGEN(2.4M MGSO4)	J.WALTER,R.HUBER,W.BODE	10/81
1TGC	TRYPSINOGEN(1.5 CH3OH, .5 HOH)	J.WALTER,R.HUBER,W.BODE	10/81
1TGT	TRYPSINOGEN(173 K,.7 CH3OH,.3 HOH)	J.WALTER,R.HUBER,W.BODE	10/81
2TGT	TRYPSINOGEN(103 K,.7 CH3OH,.3 HOH)	J.WALTER,R.HUBER,W.BODE	10/81
1TGB	TRYPSINOGEN(WITH CA, FROM PEG)	BODE,FEHLHAMMER,HUBER	3/79
2TGD	TRYPSINOGEN(DIP-INHIBITED,BOVINE)	M.JONES,R.STROUD	3/86
2TGP	TRYPSINOGEN/TRYPSIN INHIBITOR	R.HUBER ET AL.	9/82
3TPI	TRYPSINOGEN/TRYPSIN INHIBITOR(ILE-VAL	R.HUBER ET AL.	9/82
2TPI	TRYPSINOGEN/PTI(ILE-VAL (MERCURATED)	J.WALTER,R.HUBER,W.BODE	10/81
4TPI	TRYPSINOGEN/ARG-15-PTI(VAL-VAL	W.BODE,J.WALTER	6/85
1TGS	TRYPSINOGEN/PST1	R.HUBER ET AL.	9/82
1TS1	TYROSYL TRANSFER RNA SYNTHETASE	BHAT,BLOWBRICK,NYBORG	7/82 A
1UBQ	UBIQUITIN(HUMAN)	VIJAY-KUMAR,BUGG,COOK	1/87
1MEV	*MENGU VIRUS	M.ROSSMANN	2/87
2RHV	RHINOVIRUS 14(HUMAN)	ROSSMANN,ARNOLD,VRIEND	4/86 R
2STV	VIRUS(SATELLITE TOBACCO NECROSIS)	T.A.JONES,L.LILJAS	6/84
4SBV	VIRUS COAT PROTEIN(SOUTHERN BEAN MOSAIC)	M.ROSSMANN	4/85 R
2TBV	VIRUS(TOMATO BUSHY STUNT)	S.HARRISON	6/84

MODEL STRUCTURES

2ZNA	DNA(2-1,CGCGCG,SYNTHETIC,MODEL)	A.RICH	2/81
3ZNA	DNA(2-1,CGCGCG,SYNTHETIC,MODEL)	A.RICH	2/81
1DNN	DNA(ATCGCGTAAG,...,MODEL)	J.SUSSMAN,E.TRIFONOV	11/82
1DGE	IMMUNOGLOBULIN E(FC FRAGMENT)MODEL	E.PADLAN,D.DAVIES	1/85
1GF1	INSULIN-LIKE GROWTH FACTOR I (MODEL)	BLUNDELL,BEDARKAR,HUMBEL	12/82
1GF2	INSULIN-LIKE GROWTH FACTOR II (MODEL)	BLUNDELL,BEDARKAR,HUMBEL	12/82
1HLP	HUFEIN LIPOPROTEIN (MODEL)	A.MCLACHLAN	6/79
1RLX	RELAXIN(MODEL, CONFORMATION A, UNREFINED)	A.EVANS,A.NORTH	3/78
2RLX	RELAXIN(MODEL, CONFORMATION B, UNREFINED)	A.EVANS,A.NORTH	3/78
3RLX	RELAXIN(MODEL, CONFORMATION A, REFINED)	A.EVANS,A.NORTH	3/78
4RLX	RELAXIN(MODEL, CONFORMATION B, REFINED)	A.EVANS,A.NORTH	3/78
1TNC	TROPONIN (CA-BINDING COMPONENT,MODEL)	R.KRETSINGER,C.D.BARRY	6/80 A

* NEW OR REPLACEMENT ENTRY SINCE JUL-87 NEWSLETTER

STATUS CODES

BLANK	STANDARD ENTRY AVAILABLE FOR DISTRIBUTION
A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
R	RECENT (1985-1987) REPLACEMENT FOR AN OUT-OF-DATE PARAMETER SET

TABLE 6. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

IDENT CODE	MOLECULE	DEPOSITOR	DATE/STATUS
3APR	ACID PROTEINASE/PEPTIDE INHIBITOR COMPLEX	K.SUGUNA,D.DAVIES	6/87 P
7ATC	ASPARTATE CARBAMOYLTRANSFERASE (CTP)	R.HONZATKO,W.LIPSCOMB	5/87 RN
3BCL	BACTERIOCHLOROPHYLL A PROTEIN	TRONRUD,SCHMID,MATTHEWS	6/87 P
1CRO	CRO REPRESSOR PROTEIN	B.MATTHEWS ET AL.	6/87 AP
1DN6	DNA(GGATGGGAG,SYNTHETIC)	MCCALL,BROWN,HUNTER,KENNERD	5/87 N
1DN7	DNA(POLY(DG)-POLY(DC),SYNTHETIC)	M.MCCALL	5/87 N
1DN8	DNA(GGTACGACG,SYNTHETIC)	M.SUNDARALINGAM	5/87 P
1DNA	DNA(A,GCCCGGG,SYNTHETIC)	U.HEINEMANN	7/87 N
1DN9	DNA(B,CCAAGATTGG,SYNTHETIC)	G.PRIVE,R.DICKERSON	9/87 P
3EST	*ELASTASE (PORCINE)	E.MEYER ET AL.	9/87 N
1GDI	HOLLO-GPD(BACILLUS STEAROTHERMOPHILUS)	SKARZYNSKI,MOODY,WONACOTT	6/87 P
1XV1	DEAMINO-OXYTOCININ(HEAT FORM)	T.BLUNDELL ET AL.	5/87 P
1XV2	DEAMINO-OXYTOCININ(DRY FORM)	T.BLUNDELL ET AL.	5/87 P
1RIA	*RIBONUCLEASE A/D(PA)4 COMPLEX	MCPHERSON,BRAYER,MORRISON	9/87 P
1RBB	*RIBONUCLEASE B(GLYCOSYLATED)	WILLIAMS,GREENE,MCPHERSON	9.87 P
1TLP	THERMOLYSIN/PHOSPHORAMIDON INHIBITR CMPLX	TRONRUD,MONZINGO,MATTHEWS	6/87 P
1TNN	THERMOLYSIN/CLT INHIBITOR COMPLEX	A.MONZINGO,B.MATTHEWS	6/87 P
2TNN	THERMOLYSIN/PLN INHIBITOR COMPLEX	TRONRUD,MONZINGO,MATTHEWS	6/87 P
3TNN	THERMOLYSIN/VW INHIBITOR COMPLEX	H.HOLDEN,B.MATTHEWS	6/87 P
4TNN	THERMOLYSIN/ZFLA INHIBITOR COMPLEX	B.MATTHEWS ET AL.	6/87 P
5TNN	THERMOLYSIN/ZGPLL INHIBITOR COMPLEX	B.MATTHEWS ET AL.	6/87 P
6TNN	THERMOLYSIN/ZGPLL INHIBITOR COMPLEX	TRONRUD,HOLDEN,MATTHEWS	6/87 P
7TNN	THERMOLYSIN SUBSTRATE(TRANSITION,MODEL)	B.MATTHEWS ET AL.	6/87 P
1TON	TONIN(RAT)	M.FUJINAGA,M.JAMES	6/87 N
4TNC	*TROPONIN C(CHICKEN)	M.SUNDARALINGAM	9/87 RP
1TNP	*MODIFIED BETA TRYPSIN(NEUTRON)	A.KOSSIAKOFF	9/87 P
1TMV	VIRUS(TOBACCO MOSAIC)	G.STUBBS	6/87 P

R3APRF	ACID PROTEINASE/PEPTIDE INHIBITOR COMPLEX	K.SUGUNA,D.DAVIES	6/87 SF
R3ESTF	*ELASTASE (PORCINE)	E.MEYER ET AL.	9/87 SF
R1DNBF	*DNA(B,CCAAGATTGG,SYNTHETIC)	G.PRIVE,R.DICKERSON	9/87 SF

* NEW OR REPLACEMENT ENTRY SINCE JUL-87 NEWSLETTER

STATUS CODES

A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
N	NEW ENTRY AWAITING APPROVAL BY DEPOSITOR
P	IN PREPARATION
R	REPLACEMENT FOR ENTRY IN TABLE 5
SF	STRUCTURE FACTORS

TABLE 7. PROTEIN DATA BANK, BIBLIOGRAPHIC ENTRIES (NO COORDINATES)

DEAP	ACID PROTEINASE (ENDOTHIA PARASITICA)		
0W61	AGGLUTININ (WHEAT GERM, ISOLECTIN 1)		
0H0E	ALPHA-AMYLASE INHIBITOR HOE-467A (STREPTOMYCES TENDEAE 4158)		
0AF1	APOFERRITIN (HORSE)		
0MAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE		
0RNB	BARNASE (BACILLUS AMYLOLIQUEFACIENS)		
0CPT	CALCIUM-BINDING PARVALBUMIN - TERBIUM COMPLEX		
0C01	CALOTROPIN D1 (CALOTROPIS GIGANTEA)		
0CPS	CARBOXYPEPTIDASE A(ALPHA) (GLYCYL-L-TYROSINE (-9 DEGREES C))		
0ZGP	D-ALANYL-D-ALANINE PEPTIDASE (Zn2+ G PEPTIDASE)		
0GCB	GAMMA-CHYMOTRYPSIN/3-BENZYL-6-CHLORO-2-PYRONE		
0GCI	GAMMA-CHYMOTRYPSIN - INACTIVATOR COMPLEX		
0G2E	CONCAVALIN A (DEMETALLIZED)		
0CRO	CRO REPRESSOR		
05C1	CYTOCHROME C555 (CHLOROBOLIUM THIOSULFATOPHILUM)		
0CFF	CYTOCHROME P450CAM (SUBSTRATE-FREE)		
0DN1	DEOXYRIBONUCLEASE I (DNASE I)		
0C3A	DES-ARG77-C3A ANAPHYLATOXIN		
0CZ3	DIHYDROFLAVATE REDUCTASE (CHICKEN LIVER)		
0DF5	R57 DIHYDROFLAVATE REDUCTASE (ESCHERICHIA COLI)		
0DN2	DNA(CCGAAATTCGG,SYNTHETIC)		
0DN3	DNA(CCGCAATTACCG,SYNTHETIC)		
0DAC	DNA(GCGTACCG,SYNTHETIC) COMPLEX WITH TRIOSTIN		
0DN6	DNA(GGATGGGAG,SYNTHETIC)		
0DN1	DNA(GGGTCC,SYNTHETIC)		
0AN8	DNA(GGTATACC)		
0AN9	DNA(GGUA+UACC)		
0GTC	DNA (A,GGGGTCC,SYNTHETIC)		
0ESC	ELASTASE COMPLEX WITH TWO MOLECULES OF ACE-ALA-PRO-ALA		
0EFM	ELONGATION FACTOR TU (TRYPSIN-MODIFIED)		
0ETU	ELONGATION FACTOR TU COMPLEX (ESCHERICHIA COLI)		
0EXA	EXOTOXIN A (PSEUDOMONAS AERUGINOSA)		
0FDL	FAB(166 D1,3) COMPLEX WITH LYSOZYME		
0FX1	FERRDOXIN I (APHANOTHESA SACRAM)		
0FX3	FLAVODOXIN(OXIDIZED,ANACYSTIS NIDULANS)		
0FX2	FLAVODOXIN (REDUCED, CLOSTRIDIUM MP)		
0G6P	D-GALACTOSE-BINDING PROTEIN(ESCHERICHIA COLI)		
0GL5	GLUTAMINE SYNTHETASE (SALMONELLA TYPHIMURIUM)		
0G01	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHERMOPHILLUS)		
0G02	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHERMOPHILLUS)		
0G0X	GLYCOLATE OXIDASE (SPINACH)		
0HP1	HEMOYANIN(PANULIUS INTERRUPTUS)		
0DCH	HEMOGLOBIN (COBALT,DEOXY)		
0HBG	HEMOGLOBIN (GLYCERA DIBRANCHIATA)		
0H0T	HEMOGLOBIN (T STATE, HUMAN)		
0PH4	P-HYDROXYBENZOATE HYDROXYLASE (PSEUDOMONAS FLUORESCENS)		
0AU1	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (KAPPA) AU		
0ROY	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (V-MONOMER,KAPPA) ROY		
0IG1	IMMUNOGLOBULIN G1 (KAPPA) DOB		
01NH	INSULIN (HUMAN)		
01N1	INSULIN (PORCINE)		
01N2	INSULIN (PORCINE)		
01N3	DESPENTAPEPTIDE INSULIN(BEEF)		
0LRP	N-TERMINAL DOMAIN OF LAMBDA REPRESSOR		
0GLM	LYSOZYME (EMDEN GOOSE)		
0LZ5	LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)		
0LZ6	LYSOZYME (HEN EGG-WHITE, DEUTERATED ETHANOL)		
0LZ7	LYSOZYME (HEN EGG-WHITE, HIGH-TEMPERATURE)		
0LZ8	LYSOZYME (STREPTOMYCES ERYTHRAEUS)		
0TEL	LYSOZYME (TORTOISE EGG-WHITE)		
0B2H	BETA2-HIcroGLOBULIN		
0M0A	MITOCHONDRIAL MALATE DEHYDROGENASE (PORCINE)		
0MBA	MYOGLOBIN (APLYSIA LIMACINA)		
0MBM	MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)		
0MB3	MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)		
0M6C	MYOGLOBIN (SPERM WHALE, CARBONMONOXY, 260 K)		
0P5G	PERPINOGEN (PORCINE)		
0PFK	PHOSPHOFRUCTOKINASE (BACILLUS STEAROTHERMOPHILLUS)		
0PGL	PHOSPHOGLUCOMUTASE (RABBIT)		
0PPA	PHOSPHORYLASE A (RABBIT)		
0PB1	PHOSPHORYLASE B (RABBIT)		
0PRC	PHOTOSYNTHETIC REACTION CENTER (RHODOPSEUDOMONAS VIRIDIS)		
0CPC	C-PHYCOYANIN (AGMENELLUM QUADRILICATUM)		
0PF1	PROTHROMBIN FRAGMENT I (BOVINE)		
0RX5	RELAXIN (PORCINE, MODEL)		
0RSA	RIBONUCLEASE A (BOVINE)		
0RIA	RIBONUCLEASE A (BOVINE) COMPLEX WITH DNA(AAAA)		
0RBS	RIBONUCLEASE (BOVINE SEMINAL)		
0RBI	RIBONUCLEASE B1(BINASE)		
0RST	RIBONUCLEASE ST (STREPTOMYCES ERYTHREUS)		
0SEC	SUBTILISIN CARLSBERG - EGLIN-C COMPLEX(BACILLUS SUBTILIS AND LEECH)		
0CSE	SUBTILISIN CARLSBERG - EGLIN-C COMPLEX(BACILLUS SUBTILIS AND LEECH)		
0SN1	SUBTILISIN NOVO - CHYMOTRYPSIN INHIBITOR 2 COMPLEX		
0SBP	SULFATE-BINDING PROTEIN		
0SDE	FE-SUPEROXIDE DISMUTASE(ESCHERICHIA COLI)		
0SDF	FE-SUPEROXIDE DISMUTASE(PSEUDOMONAS OVALIS)		
0SDM	MN-SUPEROXIDE DISMUTASE(THERMUS THERMOPHILUS)		
0TH1	THALAMATIN		
0TLP	THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH PHOSPHORAMIDON		
0TLT	THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH P-LEU-NH2		
0TTH	THIOREDOXIN REDUCTASE (BACTERIOPHAGE T4)		
0FMT	INITIATOR TRANSFER RNA (E. COLI, P/MET)		
0TA1	TRANSFER RNA (YEAST, ASP, A FORM)		
0TR1	TRANSFER RNA (YEAST, PHE)		
0MTS	METHIONYL TRANSFER RNA SYNTHETASE		
0TMD	TRIMETHYLAMINE DEHYDROGENASE		
0YPI	TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)		
0WRP	TRP REPRESSOR (ESCHERICHIA COLI)		
0NTP	BETA TRYPSIN (NEUTRON) / MONOISOPROPYLPHOSPHORYL INHIBITED		
0UTG	UTEROGLOBIN (RABBIT)		
0AD2	ADENOVIRUS TYPE 2 HEXON (AD2)		
0PLV	VIRUS (POLIO, HUMAN)		
0TMV	VIRUS PROTEIN DISK (TOBACCO MOSAIC)		

* NEW OR REPLACEMENT ENTRY SINCE JUL-87 NEWSLETTER

BROOKHAVEN ORDER FORM (Please include a self-addressed label)

1. Name _____ Date _____
Address _____ Telephone _____

2. Documentation desired (no charge).

- Introduction to The Protein Data Bank (June 1986)
- Latest Newsletter
- Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP and DATAPRFI (January 1985)
- Current DATAPRTP Directory
- Sources of Visual Aids for Macromolecular Structure (September 1986)
- Non-Standard Entries (Structure Factors) Format Description
- Data Deposition form

3. Please send the following magnetic tape items (from Table 1).

	6250 cpi	1600 cpi	TK50
DATAPRTP (coordinate tape)			
VAX/VMS BACKUP	<input type="checkbox"/> \$264	<input type="checkbox"/> \$308	<input type="checkbox"/> \$281
VAX/VMS COPY	<input type="checkbox"/> \$264	<input type="checkbox"/> \$308	<input type="checkbox"/> \$281
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$308	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$308	
PDBPGMTP			
VAX/VMS COPY	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
NONST1TP			
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
NONST2TP			
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
NONST3TP			
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
NONST4TP			
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
NONST5TP			
Unlabelled ASCII	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	
Unlabelled EBCDIC	<input type="checkbox"/> \$264	<input type="checkbox"/> \$264	

Special order items (described in Table 1):

Please inquire at Brookhaven for availability and price.

YEAR86TP	CONECTTP	DSTNCETP
PART87TP	DGPLOTP	FISIPLTP
BENDERTP	DIHDLTP	PHIPSITP

4. Please send the following microfiche items (from Table 2). Each microfiche item costs \$289, postage included. Correction fiche are free.

Items: _____ Total Cost: _____

5. Please send the following printed listings. Each listing costs \$94, postage included.

Ident Code(s) (From Table 5): _____ Total Cost: _____

6. Foreign air mail postage for tapes from Brookhaven to destinations outside the U. S. and Canada. A postage surcharge of \$19 is required per item.

Number of items x \$19.00 = _____

7. Total charges

Magnetic tape charges (3 above)	_____
Microfiche charges (4 above)	_____
Printed listing charges (5 above)	_____
Foreign air mail postage charges (6 above)	_____
Bank charge	_____
No charge for checks drawn in US dollars on US bank, otherwise \$10	_____
Total	_____

Method of Payment:

Brookhaven requires that either a check or written purchase order payable to Brookhaven National Laboratory be received before service is provided. Order forms and purchase orders may be sent by facsimile to (United States) 516-282-3000. The original order forms and purchase orders should also be sent to Brookhaven by mail.

() check is () enclosed
() purchase order number _____ () sent separately

Please return to

Ms. F. C. Bernstein
Chemistry Department
Brookhaven National Laboratory
Upton, New York 11973 USA
(516-282-4382)

It is advisable to send a photocopy of this order form directly to Brookhaven; experience shows that purchasing departments often do not forward this form with the order.