

October is the month when we determine our charges for the upcoming year. We are pleased to announce that the cost of magnetic tape items remains the same for Brookhaven customers. Charges for Cambridge customers are determined by using the current exchange rate for the pound versus the dollar. Thus, the Cambridge charges have been increased. The foreign air mail charges henceforth will be per item rather than per tape. The charge for microfiche items has been increased to account for the fact that the size of The Protein Data Bank is growing and more fiches are included in each item. The order form on pages 5-6 of this Newsletter details all charges.

In recent months we have noticed that many more coordinate depositions are accompanied by their associated structure factors. We are pleased with this trend and would like to encourage further depositions of structure factors, including those associated with coordinates already on deposit. Although the number of orders for structure factors is small, we feel that it is vital to preserve these experimental data. At this time we do not expect to provide structure factor files in a standard format but we are starting to insert descriptive information at the head of each file.

This summer, Thomas Koetzle had a chance to meet many Protein Data Bank depositors and users at the Bristol Biophysics Congress and the Hamburg Crystallography Congress. We appreciate very much all of the useful comments and suggestions that were received.

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 or Cambridge; users in Australia or Japan should contact their centers for detailed information.

Area	Address of Center	Name	
The Americas	Protein Data Bank	E. E. Abola	516-282-4383
	Chemistry Department	F. C. Bernstein	516-282-4382
	Brookhaven National Laboratory Upton, New York 11973, USA	T. F. Koetzle	516-282-4384
Europe and Worldwide	University Chemical Laboratory	O. Kennard	0223-66499
	Lensfield Road Cambridge CB2 1EW, England	S. Bellard	
Australia	CSIRO Central Information Service P. O. Box 89, East Melbourne Victoria 3002, Australia	C. Garrow	03-418-7333
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2, Suita, Osaka 565, Japan	N. Yasuoka	(06) 877-5111 ext. 3912

Supported by the U. S. National Science Foundation and U. S. National Institutes of Health.

TABLE 1. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MAGNETIC TAPE

CODE	ITEM	16-OCT-84						
		NO. TAPES	AVAILABILITY					
		800	1600	6250	US	UK	JA	AUS
DATAPRT	ALL CURRENT PROGRAMS, BIBLIOGRAPHIC ENTRIES, COORDINATE ENTRIES (TABLES 3, 7, 9)	2	2	1	X	X	X	X
YEAR83PT	NEW OR REVISED COORDINATE ENTRIES FOR 1983	1	1	1	X			
PART84PT	NEW OR REVISED COORD ENTRIES 1984 (TO DATE)	1	1	1	X			
NONST1PT	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 4)	2	1	1	X	X	X	
NONST2PT	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 5)	2	1	1	X	X	X	
NONST3PT	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 6)	1	1	1	X	X	X	
BENDERPT	PARAMETERS FOR BENT-WIRE MODELS	1	1	1	X			
BLDKITPT	MODEL BUILDER'S KIT		PLEASE INQUIRE		AT			US CENTER
CONECTPT	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	2	1	1	X			
DOPLOTPT	DIAGONAL PLOTS (LINE PRINTER)	1	1	1	X			
DIHDRPT	COMPLETE TORSION ANGLES	2	1	1	X			
DSTNCTPT	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	2	1	1	X			
FISIP1PT	PHI/PSI PLOTS (LINE PRINTER)	1	1	1	X			
PHIPS1PT	LISTS OF PHI/PSI/OMEGA VALUES	1	1	1	X			

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 NEWSLETTER

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

CODE	ITEM	16-OCT-84			
		US	UK	JA	AUS
DATAPRF	ALL CURRENT PROGRAMS, BIBLIOGRAPHIC ENTRIES, COORDINATE ENTRIES (TABLES 3, 7, 9)		X	X	X
YEAR83FI	NEW OR REVISED COORDINATE ENTRIES FOR 1983		X		
PART84FI	NEW OR REVISED COORD ENTRIES 1984 (TO DATE)		X		
NONST1FI	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 4)		X	X	X
NONST2FI	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 5)		X	X	X
NONST3FI	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 6)		X	X	X
CORR14FI	LIST OF CORRECTIONS NO. 14 (JAN/84 - JUL/84)		X	X	X
BENDERFI	PARAMETERS FOR BENT-WIRE MODELS		X		
BLDKITFI	MODEL BUILDER'S KIT		PLEASE INQUIRE		AT US CENTER
CONECTFI	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS		X		
DOPLOTFI	DIAGONAL PLOTS (LINE PRINTER)		X		
DIHDRFI	COMPLETE TORSION ANGLES		X		
DSTNCFI	CONNECTIVITY SPECIFICATIONS WITH DISTANCES		X		
FISIP1FI	PHI/PSI PLOTS (LINE PRINTER)		X		
PHIPS1FI	LISTS OF PHI/PSI/OMEGA VALUES		X		

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 NEWSLETTER

TABLE 3. PROTEIN DATA BANK, AVAILABLE PROGRAMS

NAME	PURPOSE	AUTHOR(S)	16-OCT-84	
			REV DATE/	SUPPORTED
BENDER	PARAMETERS FOR BENT-WIRE MODELS	G. WILLIAMS	4/82	YES
BLDKIT	MODEL BUILDER'S KIT	E. ABOLA	2/84	YES
CHIRAL	CHECK CHIRALITY	E. ABOLA	1/82	YES
CONECT	GENERATE FULL CONNECTIVITY	F. BERNSTEIN	8/82	YES
CONCTC	INTERMOLECULAR CONTACTS	L. ANDREWS	5/83	NO
DOPLOT	DIAGONAL PLOTS ON PRINTER	E. SHANSON, F. BERNSTEIN	1/83	YES
DIHDR	COMPLETE TORSION ANGLES	E. ABOLA	3/80	YES
DRCTRY	DIRECTORY OF PDB DISTRIBUTION TAPE	E. ABOLA	5/84	YES
DSSP	SECONDARY STRUCTURE, SOLVENT EXPOSURE	KABSCH, C. SANDER	12/83	NO
DSTNCE	CALC. DISTANCES FROM CONECT RECORDS	F. BERNSTEIN	8/82	YES
FISIP1	PHI/PSI PLOTS ON PRINTER	F. BERNSTEIN	5/79	YES
LSM	COLOR-CODED ALPHA-CARBON MODELS	R. NATIELA, R. FLETTERICK	3/82	NO
NAMOD	BALL-AND-STICK MODEL DISPLAY	Y. BEPPE	11/78	NO
PHIPS1	MAIN-CHAIN TORSION ANGLES	ANDREWS, WILLIAMS, BERNSTEIN	2/79	YES
REFMTE	REFORMAT DATA FOR SUPERTAB, SUPERB	L. RELICK, J. DUANE	12/83	NO
STEREO	EXTRACT X, Y, Z FROM STEREO DIAGRAMS	M. ROSSMANN	6/79	NO
TAPDIR	PRINT DIRECTORY OF TAPE CONTENTS	H. BERNSTEIN, F. BERNSTEIN	11/79	YES
THEOD	MEASURE COORDINATES WITH THEODOLITE	L. LEBIDA	1/82	NO
TORSRU	COMPLETE TORSION ANGLES	G. REEKE	10/79	NO
TOTALS	VALIDATION OF MASTER RECORD	L. ANDREWS, F. BERNSTEIN	3/82	YES

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 NEWSLETTER

SUPPORTED PROGRAMS ARE THOSE FOR WHICH STAFF OF THE PROTEIN DATA BANK WILL PROVIDE CORRECTIONS FOR DEMONSTRATED ERRORS.

TABLE 4. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 1, SEE ALSO TABLES 5,6)

IDENT CODE	MOLECULE	DEPOSITOR	16-OCT-84
			DATE/ CODE
RIACTSF	ACTINININ	E. BAKER	7/77 SF
CHYMOF	ALPHA-CHYMOTRYPSIN (TOSYL)	D. BLUM	4/73 SF
RCARP04	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
RCARP05	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
R2B5CSF	CYTOCHROME B5	F. S. MATHEWS	12/77 SF
R3CY1SF	CYTOCHROME C (ALBACORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/80 SF
R4CY2SF	CYTOCHROME C (ALBACORE, REDUCED)	T. TAKANO, R. DICKERSON	7/80 SF
RCY5S0F	CYTOCHROME C50	R. TINKOVICH	4/76 SF
R1ZNASF	DNA (Z, CCGG, HIGH-SALT, SYNTHETIC)	H. DREW, R. DICKERSON	1/81 SF
R1BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC, 290 DEG K)	H. DREW, R. DICKERSON	1/81 SF
ROP004	GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	M. ROSSMANN	8/75 SF
R2GPO5F	AF0-GLYCERALDEHYDE-3-P-DEHYDROGENASE	M. ROSSMANN	12/79 SF
R2HBSF	HEMOGLOBIN (HORSE, AQUO MET AND CO)	LADNER, HEIDNER, PERUTZ	6/80 SF
R1FDHSF	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J. FRIER	6/80 SF
RHUNDH02	HEMOGLOBIN (HUMAN, DEOXY)	M. PERUTZ, G. FERMI	5/75 SF
LAMPYR1	HEMOGLOBIN (LAMPREY)	HENDRICKSON, LOVE, KARLE	5/73 SF
RLDH06	LACTATE DEHYDROGENASE	M. ROSSMANN	8/75 SF
RLDH07	LACTATE DEHYDROGENASE/NAD/PYRUVATE	M. ROSSMANN	8/75 SF
R2LNSF	LACTATE DEHYDROGENASE/S-LAC/NAD (PIG)	U. GRAU, M. ROSSMANN	1/81 SF
R1LZHSF	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	C. BLAKE, D. RICE	6/81 SF
R2LZHSF	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	C. BLAKE, D. RICE	6/81 SF
RMETHYSF1	MYOGLOBIN (SPERM WHALE, MET)	T. TAKANO	6/76 SF
RDEHYSF1	MYOGLOBIN (SPERM WHALE, DEOXY)	T. TAKANO	6/76 SF
RRLBY02	RUBREDOXIN	L. JENSEN	3/74 SF
R4TNASF	TRANSFER RNA (YEAST, PHE)	A. JACK, J. LADNER, A. KLUG	6/80 SF

CODES

SF STRUCTURE FACTORS

TABLE 5. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 2, SEE ALSO TABLES 4,6)

IDENT CODE	MOLECULE	DEPOSITOR	16-OCT-84
			DATE/ CODE
R1ICBSF	CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZEBENYI, K. MOFFAT	7/83 SF
R1ICRSF	CYTOCHROME C (RICE)	H. OCHI, N. TANAKA	3/83 SF
R351CSF	CYTOCHROME C51 (OXIDIZED)	T. TAKANO, R. DICKERSON	9/81 SF
R41CSF	CYTOCHROME C51 (REDUCED)	T. TAKANO, R. DICKERSON	9/81 SF
R1ANASF	DNA (A, D-100-CCGG)SPACE GROUP P 43 21 2	B. CONNER, R. DICKERSON	6/82 SF
R1ANAF2	DNA (A, D-100-CCGG)SPACE GROUP P 21	B. CONNER, R. DICKERSON	6/82 SF
R2BNASF	DNA (B, CGCGAATTCGG, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	11/81 SF
R2BNASF	DNA (B, 9-BR-CGCGAATTCGG, 20 DEG C)	KOPKA, FRATINI, DICKERSON/82 SF	
R2BNASF	DNA (B, 9-BR-CGCGAATTCGG, 7 DEG C)	KOPKA, FRATINI, DICKERSON/82 SF	
R2BNASF	DNA (A, CGCGAATTCGG, SYNTHETIC)/C/SPLATIN	WANG, P. JURA, DREW, DOKRSN	8/83 SF
R1GAASF	GLUTAMINASE-ASPARAGINASE (ACINETOBACTER)	H. AMMON	12/82 SF
R1GAASF	GLUTAMINASE-ASPARAGINASE (PSEUDOMONAS 7A)	H. AMMON	12/82 SF
R1HMQSF	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R1HMQSF	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R2LNSF	INSULIN (BOVINE, 2-ZINC)DES-PHE B1	C. REYNOLDS, G. DOOSON	5/82 SF
R1LH1SF	LEHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH1SF	LEHEMOGLOBIN (ACETATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH2SF	LEHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH2SF	LEHEMOGLOBIN (AQUO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH3SF	LEHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH3SF	LEHEMOGLOBIN (CYANO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH4SF	LEHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH4SF	LEHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH5SF	LEHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH5SF	LEHEMOGLOBIN (FLUORO MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH6SF	LEHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH6SF	LEHEMOGLOBIN (NICOTINATE MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LH7SF	LEHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R2LH7SF	LEHEMOGLOBIN (FERRO)/NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82 SF
R1LYMSF	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)	HOGLE, RAO, SUNDARLINGAM/82 SF	
R1MLTSF	MELITTIN	TERWILLIGER, EISENBERG	6/81 SF
R1OVOSF	OMUVICOID FRAGMENT	E. PAFAMKOKS, R. HUBER	1/82 SF
R2P2PSF	PROPIONIC PHOSPHATASE A2 (BOVINE)	D. J. KOSTER, H. ORENTH	9/81 SF
R1P1PSF	INORGANIC PYROPHOSPHATASE	E. HARUTYUNYAN ET AL.	2/83 SF
R1RN3SF	RIBONUCLEASE A	BORKAKOTI, MOSS, PALMER	6/82 SF
R1RN3SF	RIBONUCLEASE A (XRAY)	A. KLUG	6/82 SF
R1RN3SF	RIBONUCLEASE A (NEUTRON)	A. KLUG	6/82 SF
R2TLNSF	THERMOLYSIN (NATIVE)	B. MATTHEWS, M. HOLMES	2/82 SF
R2PTNSF	TRYPsin (ORTHORHOMBIC, 2.4M (NH4)2SO4)	J. WALTER, R. HUBER	10/81 SF
R1TPGSF	TRYPsin (ORTHORHOMBIC)	BODE, WALTER, HUBER	9/82 SF
R3PTNSF	TRYPsin (TRIGONAL, 2.4M (NH4)2SO4)	J. WALTER, R. HUBER	10/81 SF
R2PTNSF	TRYPsin (BENZAMIDINE INHIBITED)	BODE, SCHWAGER, WALTER	9/82 SF
R1TPPSF	TRYPsin/P-AMIDINO-PHENYL-PHYRUVATE	WALTER, BODE, HUBER	9/82 SF
R4PT1SF	TRYPsin INHIBITOR (BOVINE, PANCREAS)	R. HUBER, J. DEISENHOFER	9/82 SF
R2PTCSF	TRYPsin/TRYPsin INHIBITOR COMPLEX	R. HUBER, J. DEISENHOFER	9/82 SF
R1TPASF	TRYPsin (ANHYDRO)/TRYPsin INHIBITOR	HUBER, BODE, DEISENHOFER	9/82 SF
R2T6ASF	TRYPsin (2.4M MgSO4)	J. WALTER, R. HUBER	10/81 SF
R1T6CSF	TRYPsin (5 CH3OH, .5 HOH)	J. WALTER, R. HUBER	10/81 SF
R1T6TSF	TRYPsin (173 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER	10/81 SF
R2T6TSF	TRYPsin (103 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER	10/81 SF
R2T6PSF	TRYPsin (NOGON)/TRYPsin INHIBITOR	R. HUBER ET AL.	9/82 SF
R3T1PSF	TRYPsin (NOGON)/TRYPsin INHIBITOR/ILE-VAL	R. HUBER ET AL.	9/82 SF
R2T1PSF	TRYPsin (NOGON)/PTI/ILE-VAL (MERCURATED)	J. WALTER, R. HUBER	10/81 SF
R1T6SSF	TRYPsin (NOGON)/PTI	R. HUBER ET AL.	9/82 SF

CODES

SF STRUCTURE FACTORS

TABLE 6. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 3, SEE ALSO TABLES 4,5)

IDENT CODE	MOLECULE	DEPOSITOR	16-OCT-84
			DATE/ CODE
R2GCHSF	GAMMA-CHYMOTRYPSIN	COHEN, DAVIES, SILVERTON	7/84 SF
R1CYP5F	CYTOCHROME C PEROXIDASE (YEAST)	FINZEL, POULOS, KRAUT	11/83 SF
R2C2CSF	CYTOCHROME C2 (OXIDIZED)	BHATIA, FINZEL, KRAUT	11/83 SF
R3C2CSF	CYTOCHROME C2 (REDUCED)	BHATIA, FINZEL, KRAUT	11/83 SF
R2HBSF	HEMOGLOBIN (HUMAN, DEOXY)	G. FERMI, M. PERUTZ	3/84 SF
R1HBSF	HEMOGLOBIN (HUMAN, OXY)	B. SHANNAN	3/84 SF
R1MBOSF	MYOGLOBIN (SPERM WHALE, OXY)	S. PHILLIPS	5/84 SF
R3RP2SF	*PROTEINASE II (RAT MAST CELL)	S. REMINGTON, B. MATTHEWS	9/84 SF
R3SBVSF	*VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)	M. ROSSMANN	3/84 SF

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 NEWSLETTER

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TABLE 7. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

Table with columns: IDENT, MOLECULE, DEPOSITOR(S), DATE/STATUS, and protein name. The table lists various proteins such as ACID PROTEINASE, ALCOHOL DEHYDROGENASE, and LACTATE DEHYDROGENASE, along with their respective depositors and dates.

TABLE 8. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

16-OCT-84

3AP1	*ALPHA 1-ANTITRYPSIN(MODIFIED,TETAGONAL)	R.HUBER ET AL.	8/84	N
4API	*ALPHA 1-ANTITRYPSIN(MODIFIED,HEXAGONAL)	R.HUBER ET AL.	8/84	N
4ATC	ASPARTATE CARBAMOYLTRANSFERASE	W.LIPSCOMB	4/84	N
5ATC	ASPARTATE CARBAMOYLTRANSFERASE/CTP	W.LIPSCOMB	4/84	RN
5CAT	*CATALASE (BEEF LIVER)	I.FITA,M.ROSSMANN	12/83	RN
6CAT	*CATALASE (BEEF LIVER)	I.FITA,M.ROSSMANN	12/83	RN
6BNA	*DNA(B,CGCGAATTCGCG,SYNTHETIC)/NETROPSIN	M.KOPKA,R.DICKERSON	8/84	N
1FX1	*FLAVODOXIN(D.VULGARIS,UNREFINED)	WATENPAUGH,SIEKER,JENSEN	10/84	P
1MCP	IMMUNOGLOBULIN FAB(KAPPA)MCP603	SATOH,COHEN,PADLAN,DAVIES	7/84	N
2MCP	*IGG FAB(KAPPA)MCP603/PHOSPHOCHOLINE	E.PADLAN,G.COHEN,D.DAVIES	10/84	P
1LZ1	*LYSOZYME (HUMAN)	P.ARTYMIUK,C.BLAKE	10/84	P
5PT1	*PTI (XRAY+NEUTRON)	A.KLODAWER,R.HUBER	10/84	N
1PPD	*PAPAIN D	J.JANSONIUS	10/84	P
4RXN	*RUBREDOXIN(C.PASTEURIANUM,UNCONSTR REF)	WATENPAUGH,SIEKER,JENSEN	10/84	P
5RXN	*RUBREDOXIN(C.PASTEURIANUM,NRG+XTAL REF)	K.WATENPAUGH	10/84	P
RBNSAF	*DNA(B,CGCGAATTCGCG,SYNTHETIC)/NETROPSIN	M.KOPKA,R.DICKERSON	8/84	SF
R1X1SF	*FLAVODOXIN(D.VULGARIS,UNREFINED)	WATENPAUGH,SIEKER,JENSEN	10/84	SF
R1MPSF	IMMUNOGLOBULIN FAB(KAPPA)MCP603	G.COHEN ET AL.	7/84	SF
R2MPSF	*IGG FAB(KAPPA)MCP603/PHOSPHOCHOLINE	PADLAN,COHEN,DAVIES	10/84	SF
RSPT1SF	*PTI (XRAY)	A.KLODAWER,R.HUBER	10/84	SF
RSPT1SN	*PTI (NEUTRON)	A.KLODAWER,R.HUBER	10/84	SF
R1PPDSF	*PAPAIN D	J.JANSONIUS	10/84	SF
R5RXNSF	*RUBREDOXIN(C.PASTEURIANUM)	WATENPAUGH,SIEKER,JENSEN	10/84	SF

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 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 7
SF STRUCTURE FACTORS

TABLE 9. PROTEIN DATA BANK, BIBLIOGRAPHIC ENTRIES

16-OCT-84

DEAP	ACID PROTEINASE (ENDOTHA PARASITICA)
OADC	ADH-NADH-DIMETHYLSULFOXIDE COMPLEX
DAF1	ADPFERRITIN (HORSE)
OMAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE
OAZA	AZURIN(ALCAGIGENES DENITRIFICANS)
ORNB	BARNASE (BACILLUS AMYLOLIQUEFACIENS)
OCDI	CALOTROPIN D1 (CALOTROPIS GIGANTEA)
OPTE	D-ALANYL-CARBOXYPEPTIDASE-TRANSPREPTIDASE
OZOP	D-ALANYL-D-ALANINE PEPTIDASE (Zn ²⁺ G PEPTIDASE)
OCTS	CITRATE SYNTHASE (PIG)
OCN2	CONCAVALIN A (DEMETALLIZED)
OCRO	CRO REPRESSOR
OGCR	GAMMA-CRYSTALLIN II (CALF)
OCY3	CYTOCHROME C3 (DESULFOVIBRIO DESULFURICANS NORWAY)
OC51	CYTOCHROME C555 (CHLOROBILIUM THIOSULFATOPHILUM)
OC3A	DES-ARG77-C3A ANAPHYLATOXIN
OCDF	DIHYDROFOLATE REDUCTASE (CHICKEN LIVER)
OANB	DNA (GGTATACC)
OANB	DNA (GG+UA+UACC)
OC5Z	ELASTASE COMPLEX (PIG)
OETU	ELONGATION FACTOR TU COMPLEX (E. COLI)
OEBX	ERABUTOXIN B
OFX1	*FERREDOXIN I (APHANOTHECE SACRUM)
OFX3	*FLAVODOXIN (OXIDIZED, ANACYSTIS NIDULANS)
OFX1	FLAVODOXIN (DESULFOVIBRIO VULGARIS)
OFX2	FLAVODOXIN (REDUCED, CLOSTRIDIUM MP)
OGBP	D-GALACTOSE-BINDING PROTEIN(ESCHERICHIA COLI)
OGAP	CATABOLITE GENE ACTIVATOR PROTEIN
OGP1	GLUTATHIONE PEROXIDASE (BOVINE)
ODD1	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHERMOPHILLUS)
OHMG	HEMAGGLUTININ
OHPI	*HEMOCYANIN(PANULIRUS INTERRUPTUS)
ODCH	HEMOGLOBIN (COBALT,DEOXY)
OHBG	HEMOGLOBIN (GLYCERA DIBRANCHIATA)
OPHH	P-HYDROXYBENZOATE HYDROXYLASE (PSEUDOMONAS FLUORESCENS)
OAJ1	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (KAPPA) AU
OROY	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (V-MONOMER,KAPPA) ROY
OMCP	IMMUNOGLOBULIN FAB (KAPPA) MCP603
OIG1	IMMUNOGLOBULIN G1 (KAPPA) DOB
OINI	INSULIN (PORCINE)
OINS	INSULIN (PORCINE)
OINS	*DESPEPTIDE INSULIN(BEEF)
OPKA	KALLIKREIN I (PORCINE)
OKAI	KALLIKREIN A/BOVINE PANCREATIC INHIBITOR
OLRP	N-TERMINAL DOMAIN OF LAMBDA REPRESSOR
OLM1	LYSOZYME (EMDEN GOOSE)
OLZ1	LYSOZYME (HUMAN)
OLZ5	LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)
OLZT	LYSOZYME (HEN EGG-WHITE,HIGH-TEMPERATURE)
OLZ6	LYSOZYME (STREPTOMYCES ERYTHRAEUS)
OTEL	LYSOZYME (TORTOISE EGG-WHITE)
OC1F	L7/L12 (E. COLI, C-TERMINUS)
OMBA	MYOGLOBIN (APLYSIA LIMACINA)
OMBM	MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)
OMB3	MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)
OPFK	PHOSPHOFUCTOKINASE (BACILLUS STEAROTHERMOPHILLUS)
OPP2	PHOSPHOLIPASE A2 (RATTLESNAKE)
OPPA	PHOSPHORYLASE A (RABBIT)
OPB1	PHOSPHORYLASE B (RABBIT)
ORX5	RELAXIN (PORCINE, MODEL)
ORSA	RIBONUCLEASE A (BOVINE)
ORBS	*RIBONUCLEASE (BOVINE SEMINAL)
ORB1	*RIBONUCLEASE B1(BINASE)
ORST	*RIBONUCLEASE ST (STREPTOMYCES ERYTHREUS)
ORNT	RIBONUCLEASE T1-2(PRIME)-GUANYLIC ACID (ASPERGILLUS ORYZAE)
OSDE	FE-SUPEROXIDE DISMUTASE(ESCHERICHIA COLI)
OSDP	FE-SUPEROXIDE DISMUTASE(PSEUDOMONAS OVALIS)
OTTH	THIOREDOXIN REDUCTASE (BACTERIOPHAGE T4)
OPMT	INITIATOR TRANSFER RNA (E. COLI, F/MET)
OTA1	TRANSFER RNA (YEAST, ASP, A FORM)
OTA2	TRANSFER RNA (YEAST, ASP, B FORM)
OTR1	TRANSFER RNA (YEAST, PHE)
OMTS	METHIONYL TRANSFER RNA SYNTHETASE
OYPI	TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)
OGN5	GENE 5 DNA-UNWINDING PROTEIN (E. COLI)
OUTG	UTEROGLOBIN (RABBIT)
OSTV	VIRUS (SATELLITE TOBACCO NECROSIS)
OTMV	VIRUS PROTEIN DISK (TOBACCO MOSAIC)
OTBV	VIRUS (TOMATO BUSHY STUNT)

* NEW OR REPLACEMENT ENTRY SINCE JUL-84 NEWSLETTER

ORDER FORM (Please include a self-addressed label)

1. Name _____ Date _____
Address _____ Telephone _____

2. Documentation desired (no charge).
- Latest Newsletter
 - Introduction to The Protein Data Bank (January 1984)
 - Sources of Visual Aids for Macromolecular Structure (October 1984)
 - Atomic Coordinate and Bibliographic Entry Format Description for DATAPRTP and DATAPRFI (June 1984)
 - Current DATAPRTP Directory
 - Non-Standard Entries (Structure Factors) Format Description
 - NONST1TP and NONST1FI (April 1983)
 - NONST2TP and NONST2FI (January 1984)
 - NONST3TP and NONST3FI (October 1984)
 - Data Deposition form

3. Please send the following magnetic tape items (from Table 1). Each 1-tape item costs \$184 (£153 from Cambridge); each 2-tape item costs \$225 (£188). Domestic postage is included.

<u>Item</u>	<u>Number of Tapes</u>	<u>Cost</u>
-------------	------------------------	-------------

Total _____

Special Instructions (to be completed for Brookhaven requests only).
Please check the appropriate box.

- We are especially interested in the pending entries with the following Ident Codes: _____ . Please delay shipment until the date _____ if any of these entries are expected to be available by that date.
- Normal order-will be processed as soon as possible.

4. Tape format desired (all tapes are unlabelled)

	Availability	
	US	UK
<input type="checkbox"/> 9 track, 6250 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 1600 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 800 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 6250 cpi, ASCII	yes	yes
<input type="checkbox"/> 9 track, 1600 cpi, ASCII	yes	yes
<input type="checkbox"/> 9 track, 800 cpi, ASCII	yes	yes

All tapes are distributed in blocked form with fixed record length and block size. Brookhaven normally uses a block size of 4800 characters. Please indicate here any difficulties this might cause.

5. Please send the following microfiche items (from Table 2). Each microfiche item costs \$150 (£125), postage included. Correction fiche are free.

<u>Item</u>	<u>Cost</u>
	Total _____

6. Please send the following printed listings. Each listing costs \$71 (£59), postage included.

<u>Ident Code</u> (From Table 7)	<u>Cost</u>
	Total _____

7. Foreign air mail postage for tapes from Brookhaven to destinations outside the U. S. and Canada or from Cambridge to destinations outside the United Kingdom. A postage surcharge of \$20 (£17) is required per item.

Number of items x \$20.00 (£17) = _____

8. Total charges

Magnetic tape charges (3 above)	_____
Microfiche charges (5 above)	_____
Printed listing charges (6 above)	_____
Foreign air mail postage charges (7 above)	_____
Total	_____

Method of Payment:

Cambridge: Cambridge prefers that no check is sent with order. Inclusion of purchase order is desirable but not mandatory.

Brookhaven: Brookhaven requires that either a check or written purchase order payable to Brookhaven National Laboratory be received before service is provided.

() check
() purchase order number _____

is () enclosed
() sent separately

Please return to

Ms. F. C. Bernstein
Chemistry Department
Brookhaven National Laboratory
Upton, New York 11973 USA

or

Dr. S. Bellard
University Chemical Laboratory
Lensfield Road
Cambridge CB2 1EW, England

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