

Numerous users have requested that we make our coordinate entries (DATAPRTP) available in ANSI-labelled FILES-11 format. We are pleased to announce that this format will be available from Brookhaven in the near future. Watch for further details in the July newsletter. Of course, the Data Bank will continue to have DATAPRTP available in fixed-record-length, fixed-block, unlabelled ASCII or EBCDIC format, as before. When the FILES-11 format is available, coordinate entries will be assigned file names PDBxxxx.ENT, where xxxx is the usual four-character Protein Data Bank entry ID code.

Recently, the Protein Data Bank has been authorized to release a data base compiled by Gary Gilliland containing crystal data on proteins that have been crystallized. This data base will be included in a new Protein Data Bank distribution product, which users will order separately. This new product will also include source codes for all Protein Data Bank programs, both supported and unsupported, and will be available only on magnetic tape in FILES-11 format. Files on this tape will not be restricted to the limited character set we generally have been using, since Gilliland's data base and several of the unsupported program source files contain special characters.

We are pleased to announce that Ray Salemmé has accepted to serve on the Protein Data Bank Advisory Board for the next three years. Ray will be joining Jan Hermans and Mike James on the Board. At this time we would like to thank Wayne Hendrickson for three years of tremendously valuable assistance.

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

Table with 5 columns: CODE, ITEM, NO.TAPES (800, 1600, 6250), and AVAILABILITY (US, UK, JA, AUS). Rows include DATAPRT, YEAR84PT, PART85PT, NONST1PT, etc.

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 NEWSLETTER

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

Table with 5 columns: IDENT CODE, MOLECULE, DEPOSITOR, DATE/ CODE. Rows include 1R1ACTSF, 1R2ZNASF, 1R1ZNASF, etc.

CODES
SF STRUCTURE FACTORS

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

Table with 4 columns: CODE, ITEM, AVAILABILITY (US, UK, JA, AUS). Rows include DATAPRF1, YEAR84F1, PART85F1, etc.

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 NEWSLETTER

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

Table with 5 columns: IDENT CODE, MOLECULE, DEPOSITOR, DATE/ CODE. Rows include R11CB5F, R1CORS1F, R351CSF, etc.

CODES
SF STRUCTURE FACTORS

TABLE 3. PROTEIN DATA BANK, AVAILABLE PROGRAMS

Table with 4 columns: NAME, PURPOSE, AUTHOR(S), REV DATE/SUPPORTED. Rows include BENDER, BLDKIT, CHIRAL, CONNECT, etc.

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 NEWSLETTER

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

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

Table with 5 columns: IDENT CODE, MOLECULE, DEPOSITOR, DATE/ CODE. Rows include R4CHASF, R2GCHSF, R1CYP5F, etc.

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 NEWSLETTER

CODES
SF STRUCTURE FACTORS

TABLE 7. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS				
11G2	IMMUNOGLOBULIN G1 (LAMBDA) KOL						
11NS	INSULIN (PORCINE 2-ZINC)						5/83
21NS	INSULIN (BOVINE, 2-ZINC) DES-PHE B1						7/80
2PKA	KALLIKREIN A (PORCINE)						5/82
2KA1	KALLIKREIN A (PORCINE)/PTI (BOVINE)						5/84
1KGA	KDPG ALDOLASE						5/84
1KES	KERATAN SULFATE						5/84
4LDH	LACTATE DEHYDROGENASE (DOG FISH)						5/78 A
3LDH	LACTATE DEHYDROGENASE (NAD/PYRUVATE) (DOG)						5/78
5LDH	LACTATE DEHYDROGENASE (S-LAC/NAD (PIG))						5/82
1LXD	LACTATE DEHYDROGENASE (MOUSE TESTES)						11/74
1LH1	LEGHEMOGLOBIN (ACETATE MET)						10/80
2LH1	LEGHEMOGLOBIN (ACETATE MET)						9/78
1LH2	LEGHEMOGLOBIN (AQUO MET)						4/82
2LH2	LEGHEMOGLOBIN (AQUO MET)						4/82
1LH3	LEGHEMOGLOBIN (CYANO MET)						4/82
2LH3	LEGHEMOGLOBIN (CYANO MET)						4/82
1LH4	LEGHEMOGLOBIN (DEOXY)						4/82
2LH4	LEGHEMOGLOBIN (DEOXY)						4/82
1LH5	LEGHEMOGLOBIN (FLUORO MET)						4/82
2LH5	LEGHEMOGLOBIN (FLUORO MET)						4/82
1LH6	LEGHEMOGLOBIN (NICOTINATE MET)						4/82
2LH6	LEGHEMOGLOBIN (NICOTINATE MET)						4/82
1LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE						4/82
2LH7	LEGHEMOGLOBIN (FERRO)/NITROSOBENZENE						4/82
1LZM	LYSOZYME (BACTERIOPHAGE T4)						3/77
1LZY	LYSOZYME (HEN EGG-WHITE, SET W2)						2/75
2LZY	LYSOZYME (HEN EGG-WHITE, SET R5SD)						2/75
3LZY	LYSOZYME (HEN EGG-WHITE, SET R5GA)						2/75
4LZY	LYSOZYME (HEN EGG-WHITE, SET R5BA)						2/75
5LZY	LYSOZYME (HEN EGG-WHITE, SET R51A)						2/75
6LZY	LYSOZYME (HEN EGG-WHITE, SET R51B)						2/75
7LZY	LYSOZYME (HEN EGG-WHITE, TRICLINIC)						2/75
8LZY	LYSOZYME (HEN EGG-WHITE, INACTIVATED)						5/77
9LZY	LYSOZYME (HEN EGG-WHITE, INACTIVATED)						5/77
1LZH	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)						5/77
2LZH	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)						5/77
1LYM	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)						5/77
1LZ1	LYSOZYME (HUMAN)						10/84
1LZ2	LYSOZYME (TURKEY EGG-WHITE)						3/81
2M0D	MALATE DEHYDROGENASE						9/81
1MLT	MELITTIN						3/81
1MBS	MYOGLOBIN (SEAL, MET)						3/79
1MBN	MYOGLOBIN (SPERM WHALE, MET)						4/73
2MBN	MYOGLOBIN (SPERM WHALE, MET)						9/76
3MBN	MYOGLOBIN (SPERM WHALE, MET)						9/76
1MBD	MYOGLOBIN (SPERM WHALE, DEOXY)						5/81
1MBO	MYOGLOBIN (SPERM WHALE, OXY)						5/81
1MB5	MYOGLOBIN (SPERM WHALE, CO-NEUTRON)						11/82
1MHR	MYOHEMERITRIN						6/76
1MRT	NEUROTOXIN (LATICAUDA SEMIFASCIATA)						9/80
1SN3	SCORPION NEUROTOXIN (VARIANT 3)						12/82
1OV0	OVOMUCOID THIRD DOMAIN (JAPANESE QUAIL)						1/82
1PPT	AVIAN PANCREATIC POLYPEPTIDE						1/81
8PAP	PAPAIN (NATIVE)						11/76
1PAD	PAPAIN (ACE-ALA-ALA-PHE-ALA, CYS-25)						11/76
2PAD	PAPAIN (DERIV OF CYS-25)						11/76
3PAD	PAPAIN (OXIDIZED CYS-25)						11/76
4PAD	PAPAIN (TOS-LYS, CYS-25)						11/76
5PAD	PAPAIN (BZOXY-GLY-PHE-GLY, CYS-25)						11/76
6PAD	PAPAIN (BZOXY-PHE-ALA, CYS-25)						11/76
1PAP	PAPAIN (D)						10/84
1PEP	PEPSIN (PORCINE)						7/78
3PGK	PHOSPHOGLYCERATE KINASE (YEAST)						9/76
2PGK	PHOSPHOGLYCERATE KINASE (HORSE)						9/76
3PGM	PHOSPHOGLYCERATE MUTASE						4/82
1BPD	PHOSPHOLIPASE A2 (BOVINE)						6/81
2BPD	PHOSPHOLIPASE A2 (BOVINE)						6/81
3BPD	PHOSPHOLIPASE A2 (BOVINE) TRANSMANINATED						6/81
1PP2	PHOSPHOLIPASE A2 (PORCINE)						6/83
1PCY	PLASTOCYANIN (POPLAR, CUE+)						8/80
2PCY	PLASTOCYANIN (POPLAR, APO)						11/83
2PAB	PRECALCIN (HUMAN, L-GMA)						9/77
2SGA	PROTEINASE A (STREPTOMYCES GRISEUS)						1/83 R
3SGB	PROTEINASE B (STREP, GRISEUS) OMTK3						1/83
3RPT	PROTEINASE II (RAT MAST CELL)						9/84
1PYP	INORGANIC PYROPHOSPHATASE						2/83
1PKX	HYRACANTIN KINASE (CAT)						11/84
1RHD	RIBONUCLEASE A						12/77
4RSA	RIBONUCLEASE A (XRAY-NEUTRON)						6/82
1RN3	RIBONUCLEASE A						10/81
1RNS	RIBONUCLEASE S						4/73
4RXN	RUBREDOXIN (C. PASTERURIANUM, UNCONST. REF)						10/84
5RXN	RUBREDOXIN (C. PASTERURIANUM, NRG+XTAL REF)						10/84
3RXN	RUBREDOXIN (DESULFOVIBRIO VULGARIS)						5/82
2SNS	STAPHYLOCOCCAL NUCLEASE						5/82
2SS1	SUBTILISIN INHIBITOR (STREPTOMYCES)						4/80
1SBT	SUBTILISIN BPN PRIME						8/72
2SBT	SUBTILISIN NOVO						9/76
1SIC	SUBTILISIN BPN (PRIME)/SS1 COMPLEX						4/84
2SD0	SUPEROXIDE DISMUTASE						3/80
3TLN	THERMOLYSIN (NATIVE)						2/82
4TLN	THERMOLYSIN (L-LEU-NHOH)						2/82
5TLN	THERMOLYSIN (HONH-BZMALONYL-A-G-N-TROAN) (D)						2/82
7TLN	THERMOLYSIN (CHCO(NH-OH)LEUCO) (H)						1/83 R
1SRX	THIOREDOXIN (E. COLI OXIDIZED)						5/76
4TNA	TRANSFER RNA (YEAST, PHE)						4/78
6TNA	TRANSFER RNA (YEAST, PHE)						11/78
8TNA	TRANSFER RNA (YEAST, PHE)						2/79
1TIM	TRIOSE PHOSPHATE ISOMERASE						9/76
2TMC	*TROPONIN-C (TURKEY)						2/85
2PTN	TRYP SIN (ORTHORHOMBIC, 2.4M (NH4)2SO4)						10/81
1TP0	TRYP SIN (ORTHORHOMBIC)						9/82
3PTN	TRYP SIN (TRIGONAL, 2.4M (NH4)2SO4)						10/81
3PTB	TRYP SIN (BENZAMIDINE INHIBITED)						9/82
1TPP	TRYP SIN/P-Amino-PHENYL-PYRUVATE						9/82
3PTP	TRYP SIN (DIP INHIBITED)						12/77
4PTI	TRYP SIN INHIBITOR (BOVINE, PANCREAS)						9/82
5PTI	TRYP SIN INHIBITOR (BOVINE, XRAY+NEUTRON)						10/84
2PTC	TRYP SIN/TRYP SIN INHIBITOR COMPLEX						9/82
1TPA	TRYP SIN (ANHYDRO)/TRYP SIN INHIBITOR						9/82
1TGA	TRYP SIN (ANHYDRO)						9/79
2TGA	TRYP SIN NOGEN (2.4M MSG04)						10/81
1TGC	TRYP SIN NOGEN (.5 CH3OH, .5 HOH)						10/81
1TGT	TRYP SIN NOGEN (173 DEG K, .7 CH3OH, .3 HOH)						10/81
2TGT	TRYP SIN NOGEN (103 DEG K, .7 CH3OH, .3 HOH)						10/81
1TGB	TRYP SIN NOGEN (WITH CA, FROM PEG)						3/79
2TGP	TRYP SIN NOGEN/TRYP SIN INHIBITOR						9/82
3TPI	TRYP SIN NOGEN/TRYP SIN INHIBITOR/ILE-VAL						9/82
2TPI	TRYP SIN NOGEN/PTI/ILE-VAL (MERCURATED)						10/81
1TGS	TRYP SIN NOGEN/PTI						9/82
1T5I	TYROSYL TRANSFER RNA SYNTHETASE						7/82
1UN5	*GENE 5 DNA-UNWINDING PROTEIN (E. COLI)						11/84
2STV	VIRUS (SATELLITE TOBACCO NECROSIS)						6/84
35BV	VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)						3/84 R
2TVB	VIRUS (TOMATO BUSHY STUNT)						6/84
2AFC	ACID PHOSPHATASE (ENDOTHELIAL PARASITIC)	T. BLUNDELL	9/81				
2APP	ACID PHOSPHATASE (PENICILLIUM JANTHINELLUM)	A. SIELECKI, M. JAMES	1/83 R				
1APR	ACID PROTEINASE (RHIZOPUS CHINENSIS)	D. DAVIES	8/79				
2ACT	ACTINIDIN	E. BAKER	11/79				
1ACX	ACTINOXANTHIN	V. PLETNEV, A. KUZIN	12/82				
2ADK	ADENYLATE KINASE (PORCINE MUSCLE)	G. SCHULZ	3/77				
1AGA	AGAROSE	S. ARNOTT	5/78				
2AGA	AGGUTININ (WHEAT GERM)	C. WRIGHT	5/80				
4ADH	ALCOHOL DEHYDROGENASE (APO)	C. -I. BRANDEN	9/79				
5ADH	ALCOHOL DEHYDROGENASE (HOMO) ADP-RIBOSE	H. EKUND, T.A. JONES	1/84				
6ADH	ALCOHOL DEHYDROGENASE (HOMO) NADH/MSO	R. KLUND	12/82				
7ADH	ALCOHOL DEHYDROGENASE (ISONICOTINIMIDYLATED)	B. PLAPP, H. EKUND	1/84				
1ALP	ALPHA LYTIC PROTEASE	BRAYER, DELBAERE, JAMES	6/79				
2TAA	TAKA-AMYLASE	KUSUNOKI, MATSUURA, KAKUDO	10/82				
5AP1	ALPHA 1-ANTI TRYPSIN (MODIFIED, TETRAGONAL)	JR. HUBER ET AL.	10/84				
5AP1	ALPHA 1-ANTI TRYPSIN (MODIFIED, HEXAGONAL)	JR. HUBER ET AL.	10/84				
1ABP	LY-ARABINOSYL-BINDING PROTEIN	F. QUIJOCHO, G. GILL LAND	4/82 A				
1AAT	CYCLOLIGASE ASPARTATE AMINOTRANSFERASE	HARUTYUNYAN, MALASHKEVICH	4/82 A				
2ATC	ASPARTATE CARBAMOYLTRANSFERASE	W. L. LIPSCOMB	3/82				
4ATC	ASPARTATE CARBAMOYLTRANSFERASE	W. L. LIPSCOMB	4/84				
5ATC	ASPARTATE CARBAMOYLTRANSFERASE/CTP	W. L. LIPSCOMB	4/84 R				
1AZA	AZURIN (ALCALIGENES DENITRIFICANS)	E. ADMAN, L. NORRIS	8/80				
1AZ2	AZURIN (PSEUDOMONAS AERUGINOSA)	E. ADMAN, L. SIEKER, L. JENSEN	8/80				
2BCL	BACTERIOCHLOROPHYLL A-PROTEIN	B. MATTHEWS	1/79 A				
1ABX	ALPHA-BUNGAROTOXIN	D. AGARD, S. SPENCER, R. STROUD	4/80 A				
1CPV	CALCIUM-BINDING PARVALBUMIN SET 6A	R. KRETSINGER	8/74				
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6B	R. KRETSINGER	8/74				
3CPV	CALCIUM-BINDING PARVALBUMIN SET 6I	R. KRETSINGER	8/74				
1ICB	CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZE BENYI, K. MOFFAT	7/83				
1CAP	CAPSULAR POLYSACCHARIDE (E. COLI M11)	S. ARNOTT	5/78				
2CAB	CARBONIC ANHYDRASE B (HUMAN)	K. KANNAN	10/83 R				
1CAC	CARBONIC ANHYDRASE C (HUMAN)	K. KANNAN	5/76				
3CPA	CARBOXYPEPTIDASE A/CYCYLYTROSINE	D. REES, W. LIPSCOMB	3/82				
4CPA	CARBOXYPEPTIDASE A/POTATO INHIBITOR	D. REES, W. LIPSCOMB	3/82				
5CPA	CARBOXYPEPTIDASE A/WATER (BOVINE)	D. REES, W. LIPSCOMB	5/82				
1CPB	CARBOXYPEPTIDASE B (BOVINE)	M. SCHMID, J. HERRIOTT	6/76 A				
1CAR	CARRAGEENAN	S. ARNOTT	11/84 R				
7CAT	*CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	11/84 R				
8CAT	*CATALASE (BEEF LIVER)	I. FITA, M. ROSSMANN	2/83 B				
4CAT	CATALASE (PENICILLIUM VITALE)	B. VAINSHTEIN ET AL.	5/78				
1CHS	CHONDROITIN-4-SULFATE	S. ARNOTT	5/78				
2CH4	ALPHA-CHYMOTRYPSIN (TOSYL)	D. BLOM	1/75				
4CHA							

Table 7 continued
from page 3

MODEL STRUCTURES			
Z2NA	DNA(2-I,CGCGCG,SYNTHETIC,MODEL)	A.RICH	2/81
SZNA	DNA(2-II,CGCGCG,SYNTHETIC,MODEL)	A.RICH	2/81
IDNN	DNA(ATCGCGTAAG,.,MODEL)	J.SUSSMAN,E.TRIFONOV	11/82
IIGE	*IMMUNOGLOBULIN E(IFC FRAGMENT)MODEL	E.PADLAN,D.DAVIES	1/85
IGF1	INSULIN-LIKE GROWTH FACTOR I (MODEL)	BLUNDELL,BEDARKAR,HUMBEL	12/82
IGF2	INSULIN-LIKE GROWTH FACTOR II (MODEL)	BLUNDELL,BEDARKAR,HUMBEL	12/82
IHLF	MUREIN LIPOPROTEIN (MODEL)	A.MCLACHLAN	8/78
IRLX	RELAXIN(MODEL,CONFORMATION A,UNREFINED)	A.EVANS,A.NORTH	3/78
ZRLX	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
ITNC	TROPONIN (CA-BINDING COMPONENT,MODEL)	R.KRETSINGER,C.D.BARRY	6/80 A

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 NEWSLETTER

STATUS CODES

BLANK	STANDARD ENTRY AVAILABLE FOR DISTRIBUTION
A	ALPHA CARBON ATOMS ONLY
B	BACKBONE ONLY
R	RECENT (1983-1985) REPLACEMENT FOR AN OUT-OF-DATE PARAMETER SET

TABLE 8. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

12-APR-85

ZALP	*ALPHA-LYTIC PROTEASE	M.FUJINAGA,M.JAMES	3/85 RN
7BNA	DNA(B,CGCGAATTCGCG,ANISO TEMP FACTORS)	HOLBROOK,DICKERSON,KIM	1/85 N
ILZT	*LYSOZYME(HEN EGG-WHITE,TRICLINIC)	HODSDON,BROWN,SIEKER,JENSN	4/85 P
4SBV	*VIRUS COAT PROTEIN(SOUTHERN BEAN MOSAIC)M.ROSSMANN		4/85 RP
RICATSF	*CATALASE(BEEF LIVER)	M.ROSSMANN	11/81 SF
R7BNASF	DNA(B,CGCGAATTCGCG,ANISO TEMP FACTORS)	HOLBROOK,DICKERSON,KIM	1/85 SF
RILZTSF	*LYSOZYME(HEN EGG-WHITE,TRICLINIC)	HODSDON,BROWN,SIEKER,JENSN	4/85 SF
R1PFCSF	*IGG PFC FRAGMENT	S.BRYANT ET AL.	4/85 SF
RHSBVSF	*VIRUS COAT PROTEIN(SOUTHERN BEAN MOSAIC)M.ROSSMANN		4/85 SF

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 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

12-APR-85

0EAP	ACID PROTEINASE (ENDOTHIA PARASITICA)
0ADC	ADH-NADH-DIMETHYLSULFOXIDE COMPLEX
0AF1	APOFERRITIN (HORSE)
0MAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE
0RNB	BARNASE (BACILLUS ANHYLOLOQUEFACIENS)
0CD1	CALOTROPIN D1 (GALOTROPIS GIGANTEA)
0PTE	D-ALANYL-CARBOXYPEPTIDASE-TRANSEPTIDASE
0ZGP	D-ALANYL-D-ALANINE PEPTIDASE (Zn2+ G PEPTIDASE)
0CN2	CONCANAVALIN A (DEMETALLIZED)
0CRO	CRO REPRESSOR
0OCR	GAMMA-CRYSTALLIN II (CALF)
0CY3	CYTOCHROME C3 (DESULFOVIBRIO DESULFURICANS NORWAY)
05C1	CYTOCHROME C555 (CHLOROBIMUM THIOSULFATOPHILUM)
0C3A	DES-ARG77-C3A ANAPHYLATOXIN
0OCF	DIHYDROFLATE REDUCTASE (CHICKEN LIVER)
0ANB	DNA(GGTACC)
0ANB	DNA(GGTACC)
0ESZ	ELASTASE COMPLEX (PIG)
0ETU	ELONGATION FACTOR TU COMPLEX (E. COLI)
0EBX	ERABUTOXIN B
0FX1	FERRDOXIN I (APHANOTHECE SACRUM)
0FX3	FLAVODOXIN(OXIDIZED,ANACYSTIS NIDULANS)
0FX2	FLAVODOXIN (REDUCED, CLOSTRIDIUM MP)
0GBP	D-GALACTOSE-BINDING PROTEIN(ESCHERICHIA COLI)
0GAP	CATABOLITE GENE ACTIVATOR PROTEIN
0GP1	GLUTATHIONE PEROXIDASE (BOVINE)
0GD1	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHERMOPHILUS)
0HMG	HEMAGGLUTININ
0HP1	HEMOCYANIN(PANULIRUS INTERRUPTUS)
0DCH	HEMOGLOBIN (COBALT,DEOXY)
0HBG	HEMOGLOBIN (GLYCERA DIBRANCHIATA)
0PHH	P-HYDROXYBENZOATE HYDROXYLASE (PSEUDOMONAS FLUORESCENS)
0AU1	IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (KAPPA) AU
0ROY	IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (V-MONOMER,KAPPA) ROY
0IG1	IMMUNOGLOBULIN G1 (KAPPA) DOB
0IN1	INSULIN (PORCINE)
0IN2	INSULIN (PORCINE)
0IN3	DESPEPTAPEPTIDE INSULIN(BEEF)
0LRP	N-TERMINAL DOMAIN OF LAMBDA REPRESSOR
0GLM	LYSOZYME(EMBDEN GOOSE)
0LZ5	LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)
0LZT	LYSOZYME (HEN EGG-WHITE,HIGH-TEMPERATURE)
0LZ6	LYSOZYME (STREPTOMYCES ERYTHRAEUS)
0TEL	LYSOZYME(TORTOISE EGG-WHITE)
0CTF	L7/L12 (E. COLI, C-TERMINUS)
0MBA	MYOGLOBIN (APLYSIA LIMACINA)
0MBM	MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)
0MB3	MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)
0PFK	PHOSPHOFRUCTOKINASE (BACILLUS STEAROTHERMOPHILUS)
0PPE	PHOSPHOLIPASE A2 (RATTLESNAKE)
0PPA	PHOSPHORYLASE A (RABBIT)
0PBI	PHOSPHORYLASE B (RABBIT)
0RX5	RELAXIN (PORCINE, MODEL)
0RSA	RIBONUCLEASE A (BOVINE)
0RS5	RIBONUCLEASE (BOVINE SEMINAL)
0RBI	RIBONUCLEASE BI(BINASE)
0RST	RIBONUCLEASE ST (STREPTOMYCES ERYTHREUS)
0RNT	RIBONUCLEASE T1-2(PRIME)-GUANYLIC ACID (ASPERGILLUS ORYZAE)
0SDS	FE-SUPEROXIDE DISMUTASE(ESCHERICHIA COLI)
0SDP	FE-SUPEROXIDE DISMUTASE(PSEUDOMONAS OVALIS)
0TTH	THIORODOXIN REDUCTASE (BACTERIOPHAGE T4)
0FMT	INITIATOR TRANSFER RNA (E. COLI, F/MET)
0TA1	TRANSFER RNA (YEAST, ASP, A FORM)
0TA2	TRANSFER RNA (YEAST, ASP, B FORM)
0TRI	TRANSFER RNA (YEAST, PHE)
0NTS	METHIONYL TRANSFER RNA SYNTHETASE
0YPI	TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)
0UTG	UTEROGLOBIN (RABBIT)
0TMV	VIRUS PROTEIN DISK (TOBACCO MOSAIC)

* NEW OR REPLACEMENT ENTRY SINCE JAN-85 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 (January 1985)
 Current DATAPRTP Directory
 Non-Standard Entries (Structure Factors) Format Description
 NONST1TP and NONST1FI (April 1985)
 NONST2TP and NONST2FI (January 1984)
 NONST3TP and NONST3FI (April 1985)
 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). Each 3-tape item costs \$266 (£222). 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 (From Table 7)</u>	<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.