Table 8. Experimental NOESY cross peaks intensities and corresponding upper distance limits

Atom1		Atom2			upl	volume
4 VAL						
	QG1	8	HIS	HB2	8	133800
	QG1	8	HIS	HB3	8	56200
7 LYS+						
	HG2	9	TYR	HA	5.9	218200
	HG2	9	TYR	HB2	6.9	113100
	HG2	9	TYR	HB3	7	56100
	HG3	9	TYR	HA	7	95340
	HG3	10	ILE	QD1	8	78570
8 HIS						
	HN	10	ILE	QD1	6.4	506000
	HA	8	HIS	HB2	4.6	116300
	HA	8	HIS	HB3	5.2	59290
	HA	9	TYR	HA	4.8	91420
	HB2	9	TYR	HN	5.4	45250
	HB2	9	TYR	HA	5	75300
	HB3	9	TYR	HN	5.2	59320
	HB3	9	TYR	HA	4.6	130700
9 TYR						
	HN	9	TYR	HA	3.6	569300
	HN	9	TYR	HB2	3.4	816200
	HN	9	TYR	HB3	3.2	1073000
	HN	10	ILE	HG12	6.6	139800
	HN	10	ILE	HG13	7	63370
	HA	9	TYR	HB2	3.6	518500
	HA	9	TYR	HB3	3.6	510400
	HA	10	ILE	HN	3.1	1269000
	HA	10	ILE	HB	4.9	80200
	HA	10	ILE	QG2	8	63460
	HA	10	ILE	HG13	7	53980
	HA	10	ILE	QD1	8	100400
	HA	44	LYS+	HN	4.5	319800
	HB2	10	ILE	HN	4.7	113100
	HB3	10	ILE	HN	4.6	122700
	HB3	54	ASP-	HB2	5.1	387000
10 ILE						
	HN	10	ILE	HA	3.8	386600
	HN	10	ILE	HB	4	287200
	HN	10	ILE	QG2	5.4	84440
	HN	10	ILE	HG12	4.9	62740
	HN	10	ILE	HG13	4.5	98930
	HN	10	ILE	QD1	5.7	61440
	HA	10	ILE	HB	4.2	218700
	HA	10	ILE	QG2	3.9	548600
	HA	10	ILE	HG12	3.8	281200
	HA	10	ILE	HG13	4	228600
	HA	10	ILE	QD1	4.7	186800
	HA	46	SER	HB3	7	20480
	HB	10	ILE	QG2	3.7	764900
	HB	10	ILE	HG12	3.6	388200
	HB	10	ILE	HG13	3.9	252200
	HB	10	ILE	QD1	4.1	450500
	HB	45	PHE	HA	7	104400
	HB	45	PHE	CG	7.1	392350.0*2
	QG2	10	ILE	HG12	3.9	604300
	QG2	10	ILE	HG13	3.6	969000
	QG2	10	ILE	QD1	4.5	1110000
	QG2	11	THR	HN	7.1	345900
	QG2	11	THR	HA	8	26240
	QG2	12	TYR	HA	8	46400
	QG2	45	PHE	HA	8	26480
	QG2	45	PHE	CG	9.8	226350.0*2
	QG2	54	ASP-	HN	8	64760
	QG2	54	ASP-	HA	8	52890
	QG2	54	ASP-	HB2	6.6	451800
	QG2	54	ASP-	HB3	6.8	397300
	QG2	55	ILE	HN	8	88040
	QG2	55	ILE	HB	8	54040
	QG2	55	ILE	QG2	7	654800
	QG2	120	LEU	HA	8	72270
	QG2	120	LEU	QD1	7.1	638400
	HG12	10	ILE	QD1	3.7	877300
	HG12	11	THR	HN	7	57940
	HG12	11	THR	QG2	7.4	281600
	HG12	44	LYS+	HA	7	110400
	HG13	10	ILE	QD1	3.4	1442000
	HG13	55	ILE	QG2	8	188400
	QD1	11	THR	HN	8	16270
	QD1	44	LYS+	HN	8	48240
	QD1	45	PHE	HA	8	22560
	QD1	46	SER	HB3	8	201800
	QD1	54	ASP-	HB2	8	129400
	QD1	55	ILE	QG2	8.9	219100
	QD1	55	ILE	QD1	9	25370
	QD1	120	LEU	HA	8	78930
11 THR						
	HN	11	THR	HA	4.7	107200
	HN	11	THR	HB	5.8	30280
	HN	11	THR	QG2	4.6	214200
	HN	53	ALA	HA	7	15300
	HN	54	ASP-	HB3	6.7	132200
	HA	11	THR	HB	3.5	672700
	HA	11	THR	QG2	3.8	713300
	HA	12	TYR	HN	3.3	893600
	HA	12	TYR	HA	5.3	50060
	HA	45	PHE	HA	5.3	114600
	HA	46	SER	HN	4.3	409500
	HA	46	SER	HB2	7	86260
	HA	46	SER	HB3	6.9	118100
	HA	47	LYS+	HA	7	4970
	HA	48	ILE	QG2	8	117300
	HA	48	ILE	QD1	8	22460
	HA	53	ALA	HA	5.6	78090
	HA	53	ALA	QB	8	115900
	HB	11	THR	QG2	3.4	1437000
	HB	12	TYR	HN	3.8	425000
	HB	46	SER	HN	6.8	124400
	HB	46	SER	HB2	7	30510
	HB	47	LYS+	HA	7	49680
	HB	48	ILE	QG2	6.7	429600
	HB	48	ILE	HG12	6.9	117900
	HB	48	ILE	HG13	4.5	632200
	HB	48	ILE	QD1	7	359800
	HB	53	ALA	HA	6.6	137600
	QG2	12	TYR	HN	8	200100
	QG2	12	TYR	HA	7	352400
	QG2	45	PHE	HA	8	32670
	QG2	46	SER	HN	7	367200
	QG2	46	SER	HA	8	120700
	QG2	46	SER	HB2	6.1	607000
	QG2	46	SER	HB3	6.8	389800
	QG2	48	ILE	QD1	5.8	1665000
	QG2	53	ALA	HA	7.8	233600
12 TYR						
	HN	12	TYR	HA	4.5	138300
	HN	12	TYR	HB2	5.9	26500
	HN	12	TYR	HB3	5.3	49580
	HN	46	SER	HA	5.4	96760
	HN	46	SER	HB3	7	42100
	HN	47	LYS+	HA	4.5	289700
	HA	12	TYR	HB2	3.5	653800
	HA	12	TYR	HB3	3.7	453200
	HA	12	TYR	CG	6.7	24110.0*2
	HA	13	ARG+	HN	3.5	639800
	HA	13	ARG+	QD	7.2	176300.0*2
	HA	46	SER	HN	6.1	47210
	HA	53	ALA	HA	7	17220
	HA	53	ALA	QB	6.8	405400
	HA	55	ILE	HN	4.5	315000
	HA	55	ILE	HB	5.9	214000
	HA	55	ILE	QG2	5.9	730100
	HA	55	ILE	HG12	7	75300
	HA	55	ILE	QD1	7.3	307000
	HA	56	LEU	HA	6.7	28680
	HB2	12	TYR	CG	6.8	75700.0*2
	HB2	13	ARG+	HN	4.1	239200
	HB2	14	ILE	HG12	6.2	175300
	HB2	53	ALA	QB	6.1	625600
	HB2	55	ILE	HN	7	83070
	HB2	55	ILE	HB	7	104900

	HB2	55	ILE	QD1	7	357400
	HB3	12	TYR	CG	6.6	91000.0*2
	HB3	13	ARG+	HN	4.8	99280
	HB3	53	ALA	QB	8	205600
	HB3	55	ILE	HN	7	44950
	HB3	55	ILE	HB	5.6	268000
	HB3	55	ILE	QG2	8	98050
	HB3	55	ILE	QD1	8	161500
	CG	30	ILE	QD1	10	38660.0*2
	CG	55	ILE	HB	9	49470.0*2
	CG	55	ILE	QG2	10	122800.0*2
	CG	55	ILE	QD1	9.7	249300.0*2
	CG	57	VAL	HA	9	20990.0*2
	CG	57	VAL	QG1	9.3	301050.0*2
	HH	46	SER	HB2	7	61510
	HH	46	SER	HB3	7	106500
13 ARG+						
	HN	13	ARG+	HA	3.8	378000
	HN	13	ARG+	QB	5.5	87600.0*2
	HN	13	ARG+	QD	6.1	47790.0*2
	HN	53	ALA	QB	6.4	513400
	HN	55	ILE	HB	7	43720
	HN	56	LEU	HA	5	168500
	HN	56	LEU	QD1	6.9	377100
	HA	13	ARG+	QB	4.4	373000.0*2
	HA	13	ARG+	QD	4.8	293100.0*2
	HA	14	ILE	HN	3.5	686600
	HA	14	ILE	HA	4.4	163300
	HA	14	ILE	HB	5.4	49300
	HA	14	ILE	HG12	6.1	191300
	HA	47	LYS+	QG	8	75800.0*2
	HA	48	ILE	HN	5.2	124000
	HA	48	ILE	HG12	5.2	367900
	HA	53	ALA	QB	8	160800
	HA	56	LEU	HA	5.2	132400
	QB	13	ARG+	QD	6.8	68925.0*4
	QB	14	ILE	HN	6.4	47545.0*2
	QB	14	ILE	HG12	6	413300.0*2
	QB	48	ILE	HB	7.2	182050.0*2
	QB	48	ILE	HG12	6.1	386900.0*2
	QB	48	ILE	QD1	9	70700.0*2
	QB	49	ASN	QB	9	66850.0*4
	QB	53	ALA	HN	8	3793.5*2
	QB	53	ALA	HA	8	22600.0*2
	QB	53	ALA	QB	7.2	600000.0*2
	QB	56	LEU	HA	8	32430.0*2
	QB	56	LEU	QD2	6.8	773500.0*2
	QB	57	VAL	HN	8	29925.0*2
	QG	13	ARG+	QD	5.2	852000.0*4
	QG	47	LYS+	QG	9	77200.0*4
	QD	14	ILE	HG13	7.3	167150.0*2
	QD	48	ILE	HG12	7.3	165550.0*2
	QD	50	THR	HA	8	104050.0*2
14 ILE						
	HN	14	ILE	HB	3.9	347300
	HN	14	ILE	QG2	5.4	82430
	HN	14	ILE	HG12	3.9	265100
	HN	14	ILE	HG13	5	58270
	HN	14	ILE	QD1	5.3	86920
	HA	14	ILE	HB	3.7	480700
	HA	14	ILE	QG2	4.1	456000
	HA	14	ILE	HG12	3.8	282900
	HA	14	ILE	HG13	4.2	149500
	HA	15	ASN	HN	3.6	576100
	HA	15	ASN	HB3	5	75440
	HA	47	LYS+	QG	8	62600.0*2
	HA	56	LEU	HA	6	54850
	HA	57	VAL	HN	4.6	250700
	HA	57	VAL	HA	6.6	29090
	HA	57	VAL	HB	4.5	674800
	HA	57	VAL	QG2	6.4	505500
	HB	14	ILE	QG2	3.8	681800
	HB	14	ILE	HG13	2.9	1519000
	HB	15	ASN	HA	4.6	122100
	HB	16	ASN	HA	5.3	165800
	HB	17	TYR	CZ	9	42970.0*2
	HB	26	VAL	QG1	6.3	550600
	HB	47	LYS+	QG	6	426850.0*2
	HB	47	LYS+	QD	8	23130.0*2
	HB	56	LEU	QD1	6.7	438500
	HB	57	VAL	HB	4.9	463600
	QG2	14	ILE	HG12	3.6	1041000
	QG2	14	ILE	HG13	3.8	691800
	QG2	14	ILE	QD1	4.6	924800
	QG2	15	ASN	HN	8	159200
	QG2	15	ASN	HA	6.7	431700
	QG2	15	ASN	HB3	8	28590
	QG2	15	ASN	HD22	7.1	327900
	QG2	16	ASN	HN	7.2	311300
	QG2	16	ASN	HA	8	157100
	QG2	16	ASN	HB2	8	51900
	QG2	17	TYR	HA	8	159500
	QG2	17	TYR	HB3	8	20880
	QG2	57	VAL	HN	8	66220
	QG2	57	VAL	HB	8	201400
	QG2	57	VAL	QG1	7.8	400600
	HG12	14	ILE	QD1	3.3	1525000
	HG12	47	LYS+	HB2	6.2	182000
	HG12	47	LYS+	HB3	6.2	180700
	HG13	14	ILE	QD1	3.2	1978000
	HG13	17	TYR	HA	6.3	167400
	HG13	47	LYS+	HB2	6.2	182300
	HG13	47	LYS+	HB3	6.1	188500
	HG13	57	VAL	HB	6.5	144000
	QD1	15	ASN	HN	8	29970
	QD1	15	ASN	HD22	8	213700
	QD1	27	ASP-	HA	6.5	490800
	QD1	30	ILE	HN	8	60520
	QD1	30	ILE	HB	6.3	537800
	QD1	30	ILE	QD1	9	201800
	QD1	31	ARG+	HA	8	112800
	QD1	47	LYS+	QG	8.5	275650.0*2
	QD1	47	LYS+	QD	9	162150.0*2
15 ASN						
	HN	15	ASN	HA	4	271700
	HN	15	ASN	HB2	3.8	389900
	HN	15	ASN	HB3	3.9	318600
	HN	57	VAL	HB	6.3	163800
	HN	58	VAL	HA	6.1	47160
	HA	15	ASN	HB2	3.3	913300
	HA	15	ASN	HB3	3.5	631300
	HA	16	ASN	HN	4.2	202200
	HA	16	ASN	HD21	5.4	310400
	HA	56	LEU	QD1	7	352300
	HB2	16	ASN	HN	4.1	239500
	HB2	16	ASN	HD21	6.3	170600
	HB2	56	LEU	HB2	6.2	182200
	HB2	56	LEU	QD1	7.5	275000
	HB2	57	VAL	QG2	6.5	493300
	HB2	58	VAL	HA	5.5	290100
	HB3	16	ASN	HN	4.4	163900
	HB3	16	ASN	HB3	5.2	373500
	HB3	16	ASN	HD21	7	93800
	HB3	56	LEU	HB2	6.4	160700
	HB3	57	VAL	QG2	6.4	521800
	HB3	58	VAL	HA	6.9	117000
16 ASN						
	HN	58	VAL	HA	5.1	143800
	HN	59	PHE	HB2	7	93970
	HN	59	PHE	HB3	6.7	128300
	HA	16	ASN	HB2	3	1563000
	HA	16	ASN	HB3	3	1664000
	HA	17	TYR	HB2	5.2	57480
	HA	17	TYR	HB3	5.8	30300
	HB2	16	ASN	HD22	3.3	749000
	HB2	59	PHE	CG	7.7	251300.0*2
	HB3	16	ASN	HD21	3.6	393900
	HB3	16	ASN	HD22	3.2	864600
	HB3	17	TYR	HN	3.7	440300
	HB3	59	PHE	HB3	6.1	187800
17 TYR						
	HN	17	TYR	HA	3.9	355300
	HN	17	TYR	HB2	4.5	146500
	HN	17	TYR	HB3	4.2	205700

	HA	17	TYR	HB2	3.6	587300
	HA	17	TYR	HB3	3.9	357800
	HA	17	TYR	CZ	5.3	81800.0*2
	HA	26	VAL	HA	6.7	28350
	HB2	17	TYR	CZ	6.1	185050.0*2
	HB2	23	ARG+	HA	4.8	492100
	HB2	23	ARG+	HG2	5.6	269800
	HB3	17	TYR	CZ	6	202300.0*2
	CZ	23	ARG+	HB2	9	55150.0*2
	CZ	23	ARG+	HB3	9	43420.0*2
	CZ	23	ARG+	HD2	9	44115.0*2
	CZ	23	ARG+	HD3	9	40690.0*2
	CZ	26	VAL	HB	7.1	401250.0*2
	CZ	26	VAL	QG2	7.9	734500.0*2
19 PRO						
	HB2	19	PRO	HD2	4.5	104200
	HB2	19	PRO	HD3	4.3	136500
	HB2	20	ASP-	HN	5.7	33930
	HB3	19	PRO	HD2	3.7	361100
	HB3	19	PRO	HD3	3.5	453300
	HB3	20	ASP-	HN	4.9	85030
	HG2	19	PRO	HD2	3.7	327500
	HG2	19	PRO	HD3	3.4	579000
	HD2	20	ASP-	HN	7	79200
	HD2	20	ASP-	HB2	7	15070
	HD2	21	MET	QE	8	31090
	HD3	20	ASP-	HN	7	39000
	HD3	20	ASP-	HB2	7	12450
	HD3	21	MET	QE	8	27550
20 ASP-						
	HN	20	ASP-	HA	3.6	560600
	HN	20	ASP-	HB2	4.6	116700
	HN	20	ASP-	HB3	4.1	244400
	HN	21	MET	QG	8	19665.0*2
	HA	21	MET	HN	4.2	219700
	HA	21	MET	QE	7.8	229800
21 MET						
	HN	21	MET	HB2	4.9	88980
	HN	21	MET	HB3	3.6	515200
	HN	21	MET	QG	6.4	36750.0*2
	HN	22	ASN	HA	4.8	94600
	HA	21	MET	HB2	3.3	934300
	HA	21	MET	HB3	3.5	675900
	HA	21	MET	QG	4.6	211050.0*2
	HA	21	MET	QE	5.2	107300
	HB2	21	MET	QE	6.1	38650
	HB2	22	ASN	HN	4.4	162500
	HB2	22	ASN	HB3	7	56260
	HB3	21	MET	QG	5.3	134300.0*2
	HB3	21	MET	QE	4.1	417400
	HB3	22	ASN	HN	4.7	112500
	HB3	22	ASN	HB3	7	38920
	QG	21	MET	QE	7.4	29660.0*2
22 ASN						
	HN	22	ASN	HA	3	1745000
	HN	22	ASN	HB2	3.7	499300
	HN	22	ASN	HB3	3.7	502800
	HA	22	ASN	HB2	3.2	1169000
	HA	22	ASN	HB3	3.6	574300
	HA	23	ARG+	HA	4.5	138200
	HA	25	ASP-	HB2	4.5	498000
	HB2	22	ASN	HD21	3.7	372800
	HB2	24	GLU-	HN	5.5	139700
	HB2	24	GLU-	QB	8	76400.0*2
	HB3	22	ASN	HD21	3.9	265300
	HB3	23	ARG+	HG3	7	76750
	HB3	24	GLU-	HN	5.5	145800
	HB3	24	GLU-	QB	8	19545.0*2
	HB3	24	GLU-	QG	7.8	126100.0*2
23 ARG+						
	HN	23	ARG+	HA	4.2	224600
	HN	23	ARG+	HB2	4.1	245200
	HN	23	ARG+	HB3	4.3	184100
	HA	23	ARG+	HB2	3.5	660000
	HA	23	ARG+	HB3	3.6	540000
	HA	23	ARG+	HG2	3.6	428700
	HA	23	ARG+	HG3	4	203300
	HA	23	ARG+	QG	3.8	842000.0*2
	HA	23	ARG+	HD3	3.4	551000
	HA	24	GLU-	HN	4.6	122500
	HA	26	VAL	HN	5.2	189000
	HA	27	ASP-	HN	6.2	67440
	HB2	23	ARG+	HG2	3.3	673300
	HB2	23	ARG+	HG3	3.4	563300
	HB2	23	ARG+	QG	4.7	366750.0*2
	HB2	23	ARG+	HD2	3.9	247200
	HB2	23	ARG+	HD3	3.7	353900
	HB2	24	GLU-	HN	4.2	224600
	HB2	24	GLU-	HA	5.6	37400
	HB3	23	ARG+	HG2	3.2	772100
	HB3	23	ARG+	HG3	3.3	706600
	HB3	23	ARG+	QG	4.7	328300.0*2
	HB3	23	ARG+	HD2	3.8	289100
	HB3	23	ARG+	HD3	3.7	373000
	HB3	24	GLU-	HN	4.1	264200
	HB3	24	GLU-	HA	5.1	69150
	HB3	24	GLU-	QB	8	28610.0*2
	HB3	24	GLU-	QG	8	24675.0*2
	HB3	25	ASP-	HB2	5.9	223800
	HG2	23	ARG+	HD2	3.5	519300
	HG2	23	ARG+	HD3	3.3	721900
	HG2	28	TYR	HB3	7	61590
	HG3	23	ARG+	HD3	3.3	740100
	HG3	27	ASP-	HB3	7	101900
	HG3	28	TYR	HB3	7	41910
	QG	23	ARG+	HD2	4.7	372300.0*2
	QG	24	GLU-	QB	9	20985.0*4
	QG	25	ASP-	HB2	8	57450.0*2
	QG	26	VAL	HA	8	108900.0*2
24 GLU-						
	HN	24	GLU-	QB	4.4	418050.0*2
	HN	24	GLU-	QG	5	204500.0*2
	HA	24	GLU-	QB	4.3	994500.0*2
	HA	24	GLU-	QG	4.2	420000.0*2
	HA	25	ASP-	HN	4.8	94950
	HA	25	ASP-	HB2	5.5	43800
	HA	25	ASP-	HB3	6.1	22700
	HA	28	TYR	HB3	4.4	528200
	HA	28	TYR	CG	9	82650.0*2
	QB	24	GLU-	QG	5.2	781500.0*4
	QB	25	ASP-	HN	5.6	118650.0*2
	QG	25	ASP-	HN	8	93950.0*2
	QG	28	TYR	HB2	8	22505.0*2
25 ASP-						
	HN	25	ASP-	HB2	3.9	362100
	HN	25	ASP-	HB3	4.1	248300
	HA	25	ASP-	HB2	3.4	804400
	HA	25	ASP-	HB3	3.3	862400
	HA	28	TYR	HB2	5	244600
	HA	28	TYR	HB3	4.3	620800
	HB2	26	VAL	HN	4	306400
	HB2	28	TYR	HB2	5.9	214700
	HB3	26	VAL	HN	4.3	189100
26 VAL						
	HN	26	VAL	HA	4	277300
	HA	26	VAL	HB	4.3	193800
	HA	26	VAL	QG2	3.9	622400
	HA	28	TYR	HB2	6.1	75460
	HA	29	ALA	QB	4.5	451500
	HB	29	ALA	QB	8	49940
	QG2	27	ASP-	HN	7.4	280900
	QG2	30	ILE	HB	7.9	220100
27 ASP-						
	HN	27	ASP-	HA	3.7	430600
	HN	27	ASP-	HB2	3.7	446100
	HN	27	ASP-	HB3	3.7	456500
	HN	28	TYR	HB2	5.4	49050
	HA	27	ASP-	HB2	4	306500
	HA	27	ASP-	HB3	3.8	368400
	HA	28	TYR	HN	4.5	136100
	HA	29	ALA	HA	6.4	53600
	HA	30	ILE	HN	5.1	213300
	HA	30	ILE	HB	5	237100
	HA	30	ILE	QG2	8	90460

	HA	30	ILE	HG13	4.6	603000
	HA	32	LYS+	QG	8	92550.0*2
	HA	57	VAL	QG2	8	198400
	HB2	28	TYR	HN	4.1	260900
	HB2	31	ARG+	HA	5.5	131500
	HB2	32	LYS+	QG	8	103600.0*2
	HB3	28	TYR	HN	4.3	188500
	HB3	31	ARG+	HA	5.8	101800
28 TYR						
	HN	28	TYR	HA	3.7	428500
	HN	28	TYR	HB2	3.7	487500
	HN	28	TYR	HB3	3.7	449500
	HA	28	TYR	HB2	3.4	783500
	HA	28	TYR	HB3	3.7	457900
	HA	28	TYR	CG	5.1	195500.0*2
	HA	29	ALA	HN	4.4	169600
	HA	29	ALA	QB	6	50390
	HA	31	ARG+	HB3	4.5	498800
	HB2	28	TYR	CG	6.1	192500.0*2
	HB2	28	TYR	CZ	7.8	22165.0*2
	HB2	30	ILE	HN	5.8	101500
	HB2	31	ARG+	HB3	7	23960
	HB2	32	LYS+	QG	8	2651.5*2
	HB3	28	TYR	CG	5.8	306650.0*2
	HB3	28	TYR	CZ	6.9	63850.0*2
	HB3	29	ALA	HA	4.2	222900
	HB3	29	ALA	QB	6.5	492100
	HB3	30	ILE	HN	5.3	182200
	HB3	32	LYS+	QG	8	13505.0*2
	CG	32	LYS+	HD2	9	14290.0*2
	CZ	29	ALA	HA	9	44090.0*2
	CZ	141	ILE	QG2	10	134150.0*2
29 ALA						
	HN	29	ALA	HA	3.3	982000
	HA	29	ALA	QB	3.2	2088000
	HA	30	ILE	HA	4.8	93000
	HA	32	LYS+	HN	5	249500
	HA	108	LEU	QD2	8	56440
	HA	141	ILE	QD1	8	138000
	QB	30	ILE	HN	3.3	1955000
	QB	30	ILE	HA	5.3	103400
	QB	30	ILE	HB	8	121300
	QB	30	ILE	QG2	6.9	723800
	QB	30	ILE	HG12	6.9	384000
	QB	30	ILE	QD1	9	166500
	QB	32	LYS+	QG	9	176750.0*2
	QB	33	ALA	QB	7	660800
	QB	101	THR	QG2	7.9	380600
	QB	108	LEU	HN	8	105600
	QB	109	PHE	HB2	8	164700
	QB	109	PHE	HB3	7.3	295400
	QB	109	PHE	CG	10	138900.0*2
	QB	110	LEU	HN	8	50280
30 ILE						
	HN	30	ILE	HA	3.6	536200
	HN	30	ILE	HB	3.4	817000
	HN	30	ILE	QG2	4.6	220300
	HN	30	ILE	QD1	5.2	106900
	HA	30	ILE	HB	4.1	246300
	HA	30	ILE	QG2	3.8	697900
	HA	30	ILE	HG12	3.8	276600
	HA	30	ILE	QD1	3.6	956300
	HA	31	ARG+	HN	4.8	96260
	HA	32	LYS+	HN	6.1	72430
	HA	32	LYS+	QG	7	206500.0*2
	HA	33	ALA	QB	3.9	1118000
	HA	108	LEU	QD1	7.1	327900
	HA	108	LEU	QD2	8	36950
	HA	113	VAL	QG2	8	43510
	HA	116	ILE	QD1	8	58340
	HB	30	ILE	QG2	3.4	1400000
	HB	30	ILE	HG12	3.4	612700
	HB	30	ILE	QD1	4.6	208700
	HB	31	ARG+	HN	3.9	345700
	HB	33	ALA	QB	6.6	464000
	QG2	30	ILE	HG12	4.3	308700
	QG2	30	ILE	QD1	4.4	1252000
	QG2	31	ARG+	HN	8	134600
	QG2	34	PHE	HA	8	55890
	QG2	34	PHE	CG	9.6	259200.0*2
	QG2	34	PHE	CZ	8.8	390850.0*2
	QG2	116	ILE	HB	8	66540
	QG2	116	ILE	QD1	9	157800
	HG12	30	ILE	QD1	4.1	445400
	HG12	116	ILE	QG2	8	26880
	HG13	34	PHE	HA	6.5	145400
	QD1	33	ALA	HA	8	54790
	QD1	33	ALA	QB	5.8	1573000
	QD1	34	PHE	CZ	10	11645.0*2
	QD1	57	VAL	QG1	6.9	723100
	QD1	57	VAL	QG2	7.7	417400
	QD1	93	PHE	CG	10	40220.0*2
	QD1	108	LEU	QD2	7.2	596100
	QD1	116	ILE	QG2	7.3	556900
	QD1	116	ILE	QD1	9	152700
	CD1	57	VAL	QG1	8	126600
31 ARG+						
	HN	31	ARG+	HA	3.8	378100
	HN	31	ARG+	HB2	3.7	501000
	HN	31	ARG+	HB3	3.4	839300
	HN	31	ARG+	QD	7.1	17065.0*2
	HA	31	ARG+	HB2	3.4	808100
	HA	31	ARG+	HB3	3.2	1186000
	HA	31	ARG+	HG2	3.3	724900
	HA	31	ARG+	HG3	3.5	489000
	HA	31	ARG+	QD	5.1	173600.0*2
	HA	32	LYS+	HN	3.7	473800
	HA	33	ALA	HA	7	27200
	HA	34	PHE	HN	5.6	129800
	HA	34	PHE	CG	9	112850.0*2
	HA	47	LYS+	QG	8	54750.0*2
	HB2	31	ARG+	HG2	2.9	1587000
	HB2	31	ARG+	HG3	3	1284000
	HB2	31	ARG+	QD	5	223600.0*2
	HB2	32	LYS+	QG	7	209500.0*2
	HB2	47	LYS+	QG	8	59000.0*2
	HB3	31	ARG+	HG3	3.2	907100
	HB3	31	ARG+	QD	4.5	480600.0*2
	HB3	32	LYS+	HA	4.9	85150
	HG2	31	ARG+	QD	4.5	466850.0*2
	HG2	35	GLN	QB	8	65600.0*2
	HG2	35	GLN	HG2	7	21220
	HG2	47	LYS+	HA	7	62140
	HG3	31	ARG+	QD	4.2	812000.0*2
	HG3	35	GLN	HG2	7	34680
	HG3	35	GLN	HG3	7	38190
	QD	32	LYS+	HN	8	24615.0*2
	QD	35	GLN	HN	8	10320.0*2
32 LYS+						
	HN	32	LYS+	HA	3.9	322000
	HN	32	LYS+	QB	4.3	458150.0*2
	HN	32	LYS+	QG	5.1	191850.0*2
	HN	32	LYS+	HD2	5.5	30390
	HN	35	GLN	QB	7.7	42810.0*2
	HA	32	LYS+	QB	4.5	631500.0*2
	HA	32	LYS+	QG	4.1	455000.0*2
	HA	32	LYS+	HD2	3.5	513600
	HA	32	LYS+	HD3	3.6	383600
	HA	32	LYS+	QE	5.8	74700.0*2
	HA	33	ALA	HN	3.8	424700
	HA	35	GLN	QB	5.4	534500.0*2
	HA	35	GLN	HG2	7	86420
	HA	35	GLN	HG3	6.5	147500
	HA	36	VAL	QG1	6.1	610400
	QB	32	LYS+	QG	5.3	741750.0*4
	QB	32	LYS+	HD2	4.8	293750.0*2
	QB	32	LYS+	HD3	4.9	242700.0*2
	QB	32	LYS+	QE	6.5	106000.0*4
	QB	33	ALA	HN	5.1	262950.0*2
	QB	35	GLN	QB	9	37800.0*4
	QB	36	VAL	QG1	9	163800.0*2
	QB	36	VAL	QG2	9	11165.0*2
	QB	109	PHE	HD1	7	201200.0*2
	QB	109	PHE	HE1	7.2	181000.0*2

	QG	32	LYS+	QE	5.9	235575.0*4
	QG	33	ALA	HN	8	98650.0*2
	QG	34	PHE	HN	6.7	248650.0*2
	QG	35	GLN	QB	8.6	137775.0*4
	QG	35	GLN	HG3	8	33045.0*2
	QG	35	GLN	HE21	8	39760.0*2
	QG	109	PHE	HD2	6.8	228650.0*2
	HD2	32	LYS+	QE	4.6	393300.0*2
	HD2	35	GLN	HN	7	34750
	HD2	35	GLN	QB	8	49235.0*2
	HD2	35	GLN	HG2	7	21250
	HD2	35	GLN	HG3	7	35600
	HD3	32	LYS+	QE	5	211650.0*2
	HD3	35	GLN	QB	8	8930.0*2
	QE	141	ILE	QD1	9	117400.0*2
33 ALA						
	HN	33	ALA	HA	3.2	1217000
	HN	33	ALA	QB	3.8	794200
	HN	116	ILE	QD1	8	38840
	HA	33	ALA	QB	3.1	2924000
	HA	36	VAL	QG2	6.2	590100
	HA	37	TRP	HN	5.1	208300
	HA	109	PHE	CG	9	102700.0*2
	HA	109	PHE	HD1	5.8	227000
	HA	112	ALA	QB	5	1352000
	HA	113	VAL	HN	5.1	141500
	HA	113	VAL	HA	5.3	118300
	HA	113	VAL	HB	5.6	273100
	HA	113	VAL	QG1	8	154300
	HA	113	VAL	QG2	5.2	1143000
	HA	114	HIS	HN	6.6	29040
	HA	116	ILE	QG2	5.4	1038000
	HA	116	ILE	QD1	8	98300
	QB	34	PHE	HN	4.4	304100
	QB	35	GLN	QB	9	92450.0*2
	QB	113	VAL	HA	5.9	704200
	QB	113	VAL	QG2	5.3	2503000
	QB	116	ILE	HA	8	75550
	QB	116	ILE	QG2	9	129500
	QB	116	ILE	QD1	6	1443000
34 PHE						
	HN	34	PHE	HA	3.8	389300
	HN	34	PHE	QB	4.5	327850.0*2
	HN	36	VAL	QG2	8	155000
	HN	116	ILE	QD1	8	84830
	HA	34	PHE	QB	5	282750.0*2
	HA	34	PHE	CG	4.9	262850.0*2
	HA	34	PHE	CZ	6.2	27875.0*2
	HA	35	GLN	HN	4.7	108500
	HA	37	TRP	HB2	6.4	54320
	HA	45	PHE	CG	8.4	161900.0*2
	HA	116	ILE	QG2	8	211900
	HA	116	ILE	QD1	8	213200
	QB	34	PHE	CG	7.1	179725.0*4
	QB	34	PHE	CZ	9.5	11475.0*4
	QB	35	GLN	HN	5.5	147850.0*2
	QB	35	GLN	HA	5.1	233450.0*2
	QB	36	VAL	HB	7.4	159100.0*2
	QB	45	PHE	CG	9.7	128175.0*4
	QB	116	ILE	QD1	9	19980.0*2
	CG	116	ILE	QG2	10	72950.0*2
	CG	116	ILE	QD1	10	58250.0*2
	CZ	116	ILE	QG2	10	122350.0*2
	CZ	116	ILE	HG12	9	4816.5*2
	CZ	116	ILE	HG13	9	4673.0*2
	CZ	116	ILE	QD1	10	67750.0*2
35 GLN						
	HN	35	GLN	HA	3.5	654300
	HN	35	GLN	QB	4.1	669000.0*2
	HN	35	GLN	HG2	4.5	103800
	HN	35	GLN	HG3	4.3	133000
	HN	36	VAL	QG1	8	185700
	HN	113	VAL	QG2	8	57800
	HA	35	GLN	QB	4.4	826000.0*2
	HA	35	GLN	HG2	3.7	320000
	HA	35	GLN	HG3	3.6	378300
	HA	36	VAL	HN	4.2	205500
	HA	36	VAL	HA	5.5	43770
	HA	38	SER	HN	4.9	282600
	HA	39	ASN	HN	5.6	127500
	HA	40	VAL	HN	7	19550
	HA	45	PHE	CG	9	95400.0*2
	QB	35	GLN	HG2	4.3	730500.0*2
	QB	35	GLN	HG3	4	1231500.0*2
	QB	35	GLN	HE21	4.9	247850.0*2
	QB	35	GLN	HE22	7.1	16510.0*2
	QB	36	VAL	QG2	9	12640.0*2
	QB	37	TRP	HN	8	9315.0*2
	QB	38	SER	HN	8	15290.0*2
	HG2	35	GLN	HE22	4.3	133600
	HG2	36	VAL	HN	5.6	266300
	HG2	36	VAL	QG1	8	61730
	HG2	39	ASN	HA	7	74750
	HG2	39	ASN	QB	8	15340.0*2
	HG3	35	GLN	HE21	4.1	198900
	HG3	35	GLN	HE22	4.4	125500
	HG3	36	VAL	HA	7	28530
	HG3	36	VAL	QG1	8	32870
	HG3	39	ASN	HA	7	65830
	HG3	39	ASN	QB	8	16015.0*2
36 VAL						
	HN	36	VAL	HA	3.5	701000
	HN	36	VAL	HB	3.4	833200
	HN	36	VAL	QG1	3.6	972900
	HN	113	VAL	QG1	8	57290
	HA	36	VAL	HB	3.5	635000
	HA	36	VAL	QG1	3.5	1126000
	HA	36	VAL	QG2	3.8	702500
	HA	37	TRP	HN	4.2	221800
	HA	39	ASN	HA	7	30560
	HA	39	ASN	QB	6.4	161300.0*2
	HA	39	ASN	HD22	7	46140
	HA	40	VAL	QG2	8	160500
	HA	145	ARG+	HA	6.3	38070
	HB	36	VAL	QG1	3.5	1114000
	HB	36	VAL	QG2	3.5	1052000
	HB	37	TRP	HN	3.8	416900
	HB	37	TRP	HA	4.5	140100
	HB	113	VAL	QG1	6.3	540500
	HB	113	VAL	QG2	8	115000
	HB	116	ILE	QG2	7.3	306000
	HB	146	LEU	HG	5.8	230000
	QG1	37	TRP	HN	5.3	1119000
	QG1	37	TRP	HD1	8	152300
	QG1	39	ASN	HD22	5.5	939700
	QG1	109	PHE	CG	10	58150.0*2
	QG1	113	VAL	QG1	6	1390000
	QG1	113	VAL	QG2	6.3	1137000
	QG1	144	PHE	CZ	9.3	303400.0*2
	QG2	37	TRP	HA	5.9	700100
	QG2	39	ASN	HN	8	106500
	QG2	109	PHE	HE1	7.6	253700
	QG2	113	VAL	QG1	6.1	1307000
	QG2	113	VAL	QG2	6.5	943300
	QG2	131	VAL	HB	8	34240
37 TRP						
	HN	37	TRP	HB2	3.8	384200
	HN	37	TRP	HB3	3.9	355600
	HN	40	VAL	QG2	8	211600
	HN	113	VAL	QG2	6.9	380600
	HA	37	TRP	HB2	3.7	446800
	HA	37	TRP	HB3	3.5	624500
	HA	116	ILE	QG2	8	18160
	HB2	37	TRP	HD1	3.6	403500
	HB2	37	TRP	HZ2	6.7	9508
	HB2	38	SER	HN	4.9	80370
	HB2	40	VAL	HN	5.6	121600
	HB2	40	VAL	QG2	8	30780
	HB2	113	VAL	QG1	8	82120
	HB2	116	ILE	QD1	8	28340
	HB2	120	LEU	QD2	7.4	280600
	HB2	121	GLY	HN	7	76460
	HB2	154	ILE	QG2	8	207500
	HB3	37	TRP	HD1	3.7	326500

	HB3	37	TRP	HZ2	6.3	13130
	HB3	38	SER	HN	5	77850
	HB3	40	VAL	QG2	8	20020
	HB3	41	THR	HB	7	108600
	HB3	41	THR	QG2	8	188500
	HB3	120	LEU	QD2	7.5	276000
	HE1	113	VAL	HA	4.7	556800
	HE1	113	VAL	QG1	6.5	494200
	HE1	113	VAL	QG2	8	107100
	HE1	116	ILE	HB	5.6	275600
	HE1	116	ILE	QG2	8	129900
	HE1	116	ILE	QD1	8	84520
	HE1	117	GLY	HA1	7	28330
	HE1	117	GLY	HA2	7	25600
	HZ3	40	VAL	HB	6.3	171600
	HZ3	117	GLY	HA2	7	20750
	HZ3	131	VAL	QG1	7.4	280000
	HZ3	154	ILE	QG2	6.5	484800
	HZ3	155	GLN	HG2	7	54510
	HZ3	155	GLN	HG3	7	54630
38 SER						
	HN	38	SER	HA	4	290700
	HN	38	SER	HB2	3.7	448700
	HN	38	SER	HB3	3.8	403100
	HA	39	ASN	HN	4	283100
	HA	41	THR	HA	5.7	107000
	HA	41	THR	HB	5	241400
	HB2	39	ASN	HN	4.5	141600
	HB2	39	ASN	HA	5.6	37700
	HB2	40	VAL	QG1	8	118200
	HB2	40	VAL	QG2	8	136900
	HB2	41	THR	QG2	6.7	426900
	HB2	45	PHE	CG	7.3	336600.0*2
	HB3	39	ASN	HN	4.4	153800
	HB3	39	ASN	HA	4.5	136200
	HB3	44	LYS+	QG	8	12875.0*2
	HB3	45	PHE	CG	7.2	359250.0*2
39 ASN						
	HN	40	VAL	HB	5.9	27500
	HN	40	VAL	QG1	8	180500
	HN	40	VAL	QG2	7.9	218500
	QB	40	VAL	HA	6.3	55400.0*2
	QB	40	VAL	HB	8	38590.0*2
	QB	40	VAL	QG1	7.6	443750.0*2
	QB	40	VAL	QG2	9	101700.0*2
	HD21	40	VAL	QG1	8	81650
40 VAL						
	HN	40	VAL	HA	3.8	414900
	HN	40	VAL	HB	4.6	118300
	HN	40	VAL	QG1	4.4	276300
	HN	40	VAL	QG2	3.6	980900
	HN	41	THR	HA	5.8	31100
	HN	41	THR	QG2	8	114100
	HA	40	VAL	HB	3.1	1393000
	HA	40	VAL	QG1	3.3	1565000
	HA	40	VAL	QG2	3.7	826100
	HA	41	THR	HN	3.9	331000
	HA	41	THR	HA	4.7	111200
	HA	41	THR	QG2	8	140400
	HB	40	VAL	QG1	3.2	2052000
	HB	40	VAL	QG2	3.5	1152000
	HB	41	THR	HN	6.2	20630
	HB	41	THR	HA	5.3	53070
	HB	41	THR	QG2	8	134700
	HB	146	LEU	QD2	8	61540
	HB	151	ILE	QG2	6.6	461300
	HB	154	ILE	QG2	8	194200
	HB	154	ILE	HG12	7	34180
	QG1	41	THR	HN	8	75490
	QG1	41	THR	HA	8	93760
	QG1	41	THR	HB	7.1	340000
	QG1	41	THR	QG2	6.5	956900
	QG1	146	LEU	QD2	6.4	979500
	QG2	41	THR	HN	7.7	238700
	QG2	41	THR	HA	8	37330
	QG2	41	THR	HB	8	119800
	QG2	41	THR	QG2	6.9	718200
	QG2	145	ARG+	HB3	5	1362000
	QG2	146	LEU	QD2	6.4	1043000
	QG2	154	ILE	QG2	6.1	1300000
41 THR						
	HN	41	THR	HA	4	280100
	HN	41	THR	HB	5.1	65160
	HN	41	THR	QG2	4.6	223200
	HA	41	THR	HB	3.6	548300
	HA	41	THR	QG2	3.6	921000
	HA	43	LEU	HB2	5.9	91000
	HA	120	LEU	QB	8	22600.0*2
	HB	41	THR	QG2	3.7	782600
	HB	120	LEU	QB	8	9550.0*2
	HB	155	GLN	HA	5.6	264600
	HB	157	LEU	HN	7	92600
	QG2	120	LEU	QD1	7.9	381500
	QG2	120	LEU	QD2	8	366400
	QG2	151	ILE	HA	8	144600
	QG2	154	ILE	HA	8	83500
	QG2	154	ILE	HB	8	48180
	QG2	157	LEU	HB2	6.5	484800
43 LEU						
	HG	44	LYS+	HA	6.6	141800
	QD1	154	ILE	HA	6	669000
44 LYS+						
	HN	44	LYS+	HA	3.2	1100000
	HN	44	LYS+	HB2	3.9	331200
	HN	44	LYS+	HB3	4.1	267800
	HA	45	PHE	HA	5.3	50680
	HB2	44	LYS+	QG	4.4	612500.0*2
	HB2	44	LYS+	QE	6.2	45735.0*2
	HB3	44	LYS+	QG	4.4	618000.0*2
	HB3	44	LYS+	QE	6.4	35225.0*2
45 PHE						
	HN	45	PHE	HA	3.7	465800
	HN	45	PHE	HB2	4.2	205000
	HN	45	PHE	HB3	4.6	121400
	HA	45	PHE	HB2	4.2	222700
	HA	45	PHE	HB3	3.9	319000
	HA	45	PHE	CG	4.9	261800.0*2
	HA	46	SER	HN	3.3	886300
	HA	46	SER	HA	5.5	40950
	HA	46	SER	HB2	5.9	28820
	HA	46	SER	HB3	5.4	48080
	HB2	45	PHE	CG	5.7	323900.0*2
	HB3	45	PHE	CG	5.8	276300.0*2
	CG	116	ILE	HA	9	7190.0*2
	CG	116	ILE	HB	9	103050.0*2
	CG	116	ILE	QD1	10	67050.0*2
46 SER						
	HN	46	SER	HB2	3.6	538100
	HN	46	SER	HB3	3.7	501100
	HA	46	SER	HB2	3.6	564300
	HA	46	SER	HB3	3.6	556900
	HA	47	LYS+	HN	2.9	2098000
	HA	47	LYS+	HA	4.5	136500
	HA	47	LYS+	HB2	4.9	80310
	HA	47	LYS+	HB3	5.7	32530
	HA	47	LYS+	QD	7.6	141500.0*2
	HA	48	ILE	QG2	7.2	315700
	HA	48	ILE	HG12	7	91740
	HB2	48	ILE	QG2	8	101800
	HB2	48	ILE	QD1	8	42780
	HB3	47	LYS+	QG	8	81350.0*2
	HB3	48	ILE	QG2	8	91170
47 LYS+						
	HN	47	LYS+	HB2	4	293400
	HN	47	LYS+	HB3	4.1	250600
	HA	47	LYS+	HB2	3.9	320600
	HA	47	LYS+	HB3	3.7	453000
	HA	47	LYS+	QG	4.6	213950.0*2
	HA	47	LYS+	QD	7.5	11275.0*2
	HA	48	ILE	HN	3.4	848700
	HA	48	ILE	HA	4.5	138600
	HA	48	ILE	HG13	5.1	392500
	HB2	47	LYS+	QG	5	214950.0*2
	HB2	47	LYS+	QD	6.1	48705.0*2

	HB2	48	ILE	HA	5.8	31700
	HB3	47	LYS+	QG	5.1	186200.0*2
	HB3	47	LYS+	QD	6.4	34405.0*2
	HB3	48	ILE	HN	6.1	22630
	HB3	48	ILE	HA	5.3	51490
	HB3	48	ILE	QG2	6.3	558600
	QG	48	ILE	HA	7.6	141200.0*2
	QG	48	ILE	HB	6.8	230450.0*2
	QG	48	ILE	HG13	6.8	231300.0*2
	QG	48	ILE	QD1	9	153950.0*2
	QG	57	VAL	HB	7.8	123400.0*2
48 ILE						
	HN	48	ILE	HA	3.9	362500
	HN	48	ILE	HB	4.4	166800
	HN	48	ILE	QG2	4.5	234900
	HN	48	ILE	HG12	4.4	124500
	HN	48	ILE	HG13	3.9	268700
	HN	48	ILE	QD1	5	127600
	HA	48	ILE	HB	3.4	735300
	HA	48	ILE	QG2	3.6	927600
	HA	48	ILE	QD1	4.8	174700
	HA	50	THR	QG2	8	157500
	HB	48	ILE	QG2	3.7	878400
	HB	48	ILE	HG12	3.6	425800
	HB	48	ILE	HG13	3.4	549300
	HB	48	ILE	QD1	3.4	1352000
	HB	49	ASN	HA	4.8	94700
	HB	50	THR	HN	7	16910
	HB	50	THR	QG2	6.8	390500
	HB	51	GLY	HA1	5.9	91900
	HB	51	GLY	HA2	6.5	50950
	HB	53	ALA	QB	7.7	238200
	QG2	48	ILE	HG12	4	509400
	QG2	50	THR	HA	8	67240
	QG2	50	THR	HB	8	34280
	QG2	53	ALA	HA	8	67790
	HG12	48	ILE	QD1	3.7	756400
	HG13	48	ILE	QD1	3.2	1857000
	QD1	49	ASN	QB	9	13135.0*2
	QD1	51	GLY	HA1	8	205500
	QD1	51	GLY	HA2	8	21050
	QD1	52	MET	HA	5.6	859300
	QD1	53	ALA	HN	8	123200
	QD1	53	ALA	HA	6.4	521100
	QD1	53	ALA	QB	6.6	864500
	QD1	54	ASP-	HA	8	151900
	QD1	56	LEU	HA	8	87620
49 ASN						
	HA	50	THR	HA	4.6	124000
	HA	50	THR	HB	6.2	20500
	QB	50	THR	HA	5.9	80200.0*2
	QB	50	THR	HB	8	21575.0*2
50 THR						
	HA	50	THR	HB	3.2	1087000
	HA	50	THR	QG2	3.2	1952000
	HA	51	GLY	HA2	5.1	68350
	HA	52	MET	HN	6.1	75300
	HB	50	THR	QG2	3.5	1061000
	HB	51	GLY	HN	4.5	136800
	QG2	51	GLY	HA1	8	63520
	QG2	51	GLY	HA2	8	27750
51 GLY						
	HA1	52	MET	HN	3.7	440900
	HA2	52	MET	HN	3.7	490900
53 ALA						
	HA	53	ALA	QB	3.5	1268000
	HA	54	ASP-	HN	3.3	982700
	HA	55	ILE	HN	6.6	46530
	QB	54	ASP-	HN	3.6	993000
	QB	55	ILE	HN	4.7	376000
54 ASP-						
	HN	54	ASP-	HA	4	301600
	HN	54	ASP-	HB2	4.1	261000
	HN	54	ASP-	HB3	4.6	131200
	HA	54	ASP-	HB2	3.7	458900
	HA	54	ASP-	HB3	3.7	488500
	HB2	55	ILE	HN	4	307400
	HB2	55	ILE	HB	5.9	211300
	HB3	55	ILE	HN	4.2	210200
55 ILE						
	HN	55	ILE	HA	4.6	129100
	HN	55	ILE	HB	4	307300
	HN	55	ILE	QG2	5.3	91450
	HA	55	ILE	HB	4.5	147300
	HA	55	ILE	QG2	4	469300
	HA	55	ILE	HG12	3.5	449900
	HA	55	ILE	QD1	4.9	142300
	HA	56	LEU	HN	3.3	945400
	HA	56	LEU	HA	5.6	37700
	HA	56	LEU	HB3	5.4	48720
	HA	56	LEU	QD1	6.3	557200
	HA	90	ASP-	HN	4.7	239300
	HA	90	ASP-	HA	4.1	556100
	HA	91	ALA	HN	5.5	94440
	HB	55	ILE	QG2	3.7	795200
	HB	55	ILE	HG12	2.9	1643000
	HB	55	ILE	QD1	3.9	584000
	HB	90	ASP-	HA	7	34670
	QG2	55	ILE	HG12	3.9	624500
	QG2	55	ILE	QD1	4.2	1930000
	QG2	90	ASP-	HA	7.8	230200
	QG2	116	ILE	QD1	9	46110
	HG12	57	VAL	HN	4.9	452600
	QD1	56	LEU	HN	8	163000
	QD1	56	LEU	HA	8	19450
	QD1	56	LEU	HB3	7.2	313400
	QD1	57	VAL	HB	8	65330
	QD1	90	ASP-	HN	8	34640
	QD1	90	ASP-	HA	6.3	562900
	QD1	91	ALA	HN	8	141600
	QD1	116	ILE	HB	8	186300
	QD1	116	ILE	QD1	9	79800
	QD1	119	SER	HN	8	122700
	QD1	120	LEU	QB	9	47900.0*2
56 LEU						
	HN	56	LEU	HB2	4.1	263900
	HN	56	LEU	HB3	4	296600
	HN	90	ASP-	HA	4.3	421400
	HA	56	LEU	HB2	3.7	438000
	HA	56	LEU	HB3	3.8	413700
	HA	56	LEU	QD1	4.3	344400
	HA	56	LEU	QD2	4.1	414400
	HA	57	VAL	HN	3.3	1005000
	HA	57	VAL	HA	4.5	140000
	HA	57	VAL	HB	5.3	54190
	HA	57	VAL	QG1	8	52610
	HA	58	VAL	HA	6.8	40000
	HA	58	VAL	QG2	6.4	522400
	HA	90	ASP-	QB	8	10595.0*2
	HA	91	ALA	HN	5.3	110300
	HB2	56	LEU	QD1	4	543200
	HB2	57	VAL	HN	4.7	113400
	HB2	58	VAL	HB	6	200100
	HB2	90	ASP-	HA	7	74140
	HB2	90	ASP-	QB	8	45280.0*2
	HB3	56	LEU	QD1	3.1	2402000
	HB3	57	VAL	HN	5.4	44530
	HB3	90	ASP-	HA	6.8	121800
	HB3	90	ASP-	QB	8	44875.0*2
	QD1	57	VAL	HN	7.1	345200
	QD1	90	ASP-	HA	6.3	531400
	QD2	87	ILE	QD1	6.7	793200
57 VAL						
	HN	57	VAL	HA	3	1816000
	HN	57	VAL	HB	3.7	437900
	HN	57	VAL	QG1	4.3	344400
	HN	57	VAL	QG2	3.8	683400
	HA	57	VAL	HB	4.4	162300
	HA	57	VAL	QG1	3.7	789400
	HA	57	VAL	QG2	3.3	1502000
	HA	58	VAL	HA	6.2	20840
	HA	58	VAL	HB	4.8	95420
	HA	59	PHE	CG	9	30355.0*2
	HA	91	ALA	HN	4.4	367000

	HA	92	HIS	HN	7	17320
	HA	92	HIS	HA	5.7	71470
	HA	108	LEU	QD1	8	94720
	HB	57	VAL	QG1	3.8	675600
	HB	57	VAL	QG2	3.6	1043000
	QG1	93	PHE	CG	10	163050.0*2
	QG2	59	PHE	HB2	7.3	293800
	QG2	92	HIS	HA	8	141200
58 VAL						
	HN	58	VAL	HA	4.4	171400
	HN	58	VAL	HB	3.8	384200
	HN	58	VAL	QG2	4.1	413800
	HN	92	HIS	HA	4.6	255700
	HA	58	VAL	HB	4.2	225400
	HA	58	VAL	QG1	4	470500
	HA	58	VAL	QG2	3.5	1221000
	HA	59	PHE	HN	3.4	819600
	HA	92	HIS	HD2	7	89500
	HB	58	VAL	QG1	3.5	1154000
	HB	58	VAL	QG2	3.5	1168000
	HB	59	PHE	HN	5.6	37770
	HB	59	PHE	CG	7.6	275950.0*2
	HB	91	ALA	QB	7.9	216700
	HB	92	HIS	HA	5.2	357500
	HB	92	HIS	HB3	7	36430
	HB	93	PHE	HN	7	46000
	QG1	59	PHE	HN	6.7	432200
	QG1	59	PHE	HA	8	95790
	QG1	60	ALA	HA	8	58100
	QG1	60	ALA	QB	6.5	937400
	QG1	92	HIS	HA	8	120700
	QG2	59	PHE	HN	8	151500
59 PHE						
	HA	59	PHE	HB2	4.1	246000
	HA	59	PHE	HB3	4.4	152800
	HA	59	PHE	CG	5.6	95800.0*2
	HA	60	ALA	HN	3.2	1146000
	HA	60	ALA	QB	5.3	108200
	HA	93	PHE	HB2	6.6	135600
	HA	93	PHE	HB3	6.1	186200
	HA	93	PHE	CG	9	45445.0*2
	HB2	59	PHE	CG	6.1	198250.0*2
	HB2	93	PHE	HN	6.9	118900
	HB3	59	PHE	CG	6.1	197750.0*2
	CG	93	PHE	HB2	9	77000.0*2
	CG	93	PHE	HB3	9	54150.0*2
	CG	108	LEU	QD2	10	68400.0*2
60 ALA						
	HN	60	ALA	HA	4.1	266900
	HN	60	ALA	QB	4.4	321300
	HA	60	ALA	QB	3.3	1774000
	HA	61	ARG+	HN	3.3	856900
	HA	61	ARG+	QG	8	66650.0*2
	HA	70	PHE	QB	8	98250.0*2
	QB	61	ARG+	HN	4	599300
	QB	61	ARG+	HA	6.2	41840
	QB	62	GLY	HN	6.4	56440
	QB	79	HIS	HD2	8	116800
	QB	93	PHE	CG	10	80000.0*2
61 ARG+						
	HN	61	ARG+	HA	4.2	228500
	HN	61	ARG+	HB2	4.9	81920
	HN	61	ARG+	HB3	5	75580
	HA	61	ARG+	HB2	3.9	357400
	HA	61	ARG+	HB3	3.8	379900
	HA	61	ARG+	QG	4.6	220900.0*2
	HA	61	ARG+	QD	7.2	15695.0*2
	HA	62	GLY	HN	3.8	384600
	HA	62	GLY	HA1	4.7	107800
	HA	62	GLY	HA2	4.8	98860
	HA	70	PHE	CG	9	29865.0*2
	HA	70	PHE	CZ	9	21445.0*2
	HB2	61	ARG+	QG	4.5	469300.0*2
	HB2	61	ARG+	QD	5.3	130250.0*2
	HB2	62	GLY	HN	4.7	102400
	HB3	61	ARG+	QG	4.5	500500.0*2
	HB3	61	ARG+	QD	5.6	98250.0*2

	HB3	62	GLY	HN	5.1	64600
62 GLY						
	HN	62	GLY	HA1	4.3	192900
	HN	62	GLY	HA2	4.1	264500
	HN	70	PHE	HB2	7	44170
	HN	70	PHE	HB3	7	98580
63 ALA						
	HN	63	ALA	QB	4.2	396100
	HA	63	ALA	QB	3.4	1525000
	HA	64	HIS	HN	3.7	442200
	HA	69	ALA	QB	5.7	823700
	QB	64	HIS	HN	4.7	221500
	QB	69	ALA	QB	6.5	975600
68 HIS						
	HN	68	HIS	HB2	5.4	45260
	HN	68	HIS	HB3	4.9	88500
	HA	68	HIS	HB2	3.3	1013000
	HA	68	HIS	HB3	3.3	991400
	HB2	68	HIS	HD2	4.8	69200
69 ALA						
	HN	69	ALA	QB	3.4	1435000
	HA	69	ALA	QB	3.6	1008000
70 PHE						
	HN	70	PHE	HA	4.3	190300
	HN	70	PHE	HB2	4.7	103900
	HA	70	PHE	HB2	4	289700
	HA	70	PHE	HB3	4.2	230600
	HA	70	PHE	CG	5.2	153550.0*2
	HA	70	PHE	CZ	6.2	27660.0*2
	HA	71	ASP-	HN	3.5	654000
	HA	78	ALA	HA	6.2	41900
	HB2	70	PHE	CG	7.7	25825.0*2
	HB2	70	PHE	CZ	7.8	21880.0*2
	HB2	71	ASP-	HN	4.2	209500
	HB2	72	GLY	HN	7	24580
	HB3	71	ASP-	HN	4.1	263300
	QB	76	ILE	QG2	8.2	310800.0*2
	CG	76	ILE	QG2	10	59700.0*2
	CZ	76	ILE	QG2	10	90000.0*2
71 ASP-						
	HN	71	ASP-	HA	4.1	236800
	HN	71	ASP-	HB2	4.5	133200
	HN	71	ASP-	HB3	4.4	154000
	HA	71	ASP-	HB2	3.2	1154000
	HA	71	ASP-	HB3	3.1	1243000
72 GLY						
	HN	72	GLY	HA1	4.1	261600
	HN	72	GLY	HA2	4.1	264300
	HA1	73	LYS+	HN	4	293400
	HA1	73	LYS+	HA	4.2	217300
	HA1	73	LYS+	QB	7.2	20320.0*2
	HA2	73	LYS+	HN	3.8	373000
	HA2	73	LYS+	QB	6.5	41280.0*2
	HA2	73	LYS+	QD	7.2	180850.0*2
73 LYS+						
	HN	73	LYS+	HA	4.1	263100
	HN	73	LYS+	QB	4.7	241750.0*2
	HN	98	PHE	QB	8	67100.0*2
	HA	73	LYS+	QB	4.6	581000.0*2
	HA	73	LYS+	HG2	3.2	778100
	HA	73	LYS+	QD	4.7	374450.0*2
	HA	73	LYS+	QE	6.7	25540.0*2
	HA	74	GLY	HN	3.3	937300
	HA	74	GLY	HA1	4.3	180400
	HA	98	PHE	QB	8	88150.0*2
	QB	73	LYS+	HG2	4.3	729500.0*2
	QB	73	LYS+	QE	8.4	13077.5*4
	QB	74	GLY	HA1	7.2	20390.0*2
	QB	74	GLY	HA2	7.1	21615.0*2
	QB	98	PHE	QB	9	63125.0*4
	HG2	73	LYS+	QD	4.1	1048000.0*2
	HG2	73	LYS+	QE	4.6	428800.0*2
	HG2	74	GLY	HA1	7	108000
	HG2	74	GLY	HA2	7	53560
	HG3	74	GLY	HA2	4.9	454100
	HG3	98	PHE	QB	6.2	371200.0*2
	HG3	105	GLY	QA	7.4	153150.0*2

	QD	73	LYS+	QE	5.3	713500.0*4
74 GLY						
	HN	74	GLY	HA1	3.9	320300
	HN	74	GLY	HA2	3.8	418000
	HA1	75	GLY	HN	3.7	463200
	HA1	77	LEU	QD1	8	71610
	HA2	75	GLY	HN	3.9	334100
	HA2	77	LEU	QD1	8	84060
75 GLY						
	HN	75	GLY	HA1	3.7	449600
	HN	75	GLY	HA2	3.5	614700
	HN	76	ILE	HB	6.6	13780
	HN	77	LEU	QD1	8	182000
	HA1	76	ILE	HN	3.5	666500
	HA1	76	ILE	HB	4.8	95220
	HA1	76	ILE	HG12	7	24280
	HA1	76	ILE	HG13	7	54640
	HA1	76	ILE	QD1	8	38790
	HA2	76	ILE	HN	3.7	492800
	HA2	76	ILE	HB	5.3	54040
	HA2	76	ILE	HG12	7	44070
	HA2	76	ILE	HG13	7	9343
	HA2	76	ILE	QD1	8	63940
76 ILE						
	HN	76	ILE	HA	4.5	147300
	HN	76	ILE	HB	3.8	397900
	HN	76	ILE	QG2	5.1	117500
	HN	76	ILE	HG12	4	206000
	HN	76	ILE	HG13	4.1	175200
	HN	76	ILE	QD1	5.2	107400
	HA	76	ILE	HB	4.1	256700
	HA	76	ILE	QG2	3.7	780200
	HA	76	ILE	HG12	3.7	341200
	HA	76	ILE	HG13	3.3	722800
	HA	76	ILE	QD1	3.7	768600
	HA	77	LEU	HN	3.2	1189000
	HA	77	LEU	HG	6.8	120300
	HA	77	LEU	QD1	8	111100
	HA	77	LEU	QD2	8	74010
	HA	78	ALA	HN	5	248900
	HB	76	ILE	QG2	3.6	918300
	HB	76	ILE	HG12	3.2	825900
	HB	76	ILE	HG13	3.3	734600
	HB	76	ILE	QD1	3.8	673400
	QG2	76	ILE	HG12	3.9	554400
	QG2	76	ILE	HG13	3.9	627300
	QG2	76	ILE	QD1	4.5	1131000
	QG2	77	LEU	HN	6.9	378300
	QG2	77	LEU	QD2	9	152500
	QG2	78	ALA	HN	6.2	592400
	QG2	79	HIS	HD2	7.4	287000
	HG12	76	ILE	QD1	3.3	1672000
	HG13	76	ILE	QD1	3.6	1044000
	QD1	77	LEU	HN	8	101000
	QD1	77	LEU	QD1	9	115400
	QD1	77	LEU	QD2	9	93470
	QD1	78	ALA	HN	8	43800
	QD1	79	HIS	HB3	8	42650
77 LEU						
	HN	77	LEU	HA	4.2	213600
	HN	77	LEU	QB	5.2	131050.0*2
	HN	77	LEU	HG	4.3	136500
	HN	77	LEU	QD2	5	125200
	HA	77	LEU	QB	4.9	324750.0*2
	HA	77	LEU	HG	3.6	444800
	HA	77	LEU	QD1	3.7	858400
	HA	77	LEU	QD2	4.7	196400
	QB	77	LEU	HG	4.1	926500.0*2
	QB	77	LEU	QD1	5.2	354450.0*2
	QB	77	LEU	QD2	5	516000.0*2
	QB	78	ALA	HN	5.5	144850.0*2
	QB	136	TYR	HA	8	100050.0*2
	HG	77	LEU	QD1	3.8	694600
	HG	77	LEU	QD2	3.8	709500
	HG	78	ALA	HN	6.9	119500
	HG	99	TRP	HA	7	61360
	QD1	78	ALA	HN	8	113600
	QD1	108	LEU	HA	8	52350
	QD2	111	THR	HA	8	5272
	QD2	136	TYR	HN	8	42930
	QD2	136	TYR	HA	8	92690
	QD2	136	TYR	HB2	7.3	306600
	QD2	136	TYR	HB3	7	347900
	QD2	136	TYR	CG	10	147600.0*2
	QD2	136	TYR	HH	8	70480
78 ALA						
	HN	78	ALA	QB	4.1	471500
	HN	111	THR	QG2	6.7	422300
	HA	78	ALA	QB	3.6	1065000
	HA	93	PHE	HA	4.2	469100
	QB	93	PHE	HA	6.2	595800
	QB	93	PHE	HB2	8	58980
	QB	93	PHE	HB3	8	77910
	QB	93	PHE	CG	10	84050.0*2
	QB	94	ASP-	HA	6.5	484500
	QB	111	THR	HA	6.4	499900
79 HIS						
	HA	79	HIS	HB2	3.7	443700
	HA	79	HIS	HB3	3.7	438600
	HA	92	HIS	HE1	6.8	127000
	HD2	92	HIS	HA	6.2	179400
	HD2	92	HIS	HB2	4.9	465500
	HD2	92	HIS	HB3	4.9	449400
	HD2	93	PHE	HA	6.8	126300
	HD2	93	PHE	HB2	7	63700
	HD2	93	PHE	HB3	7	44240
80 ALA						
	HN	80	ALA	HA	3.2	1144000
	HA	80	ALA	QB	3.4	1517000
	HA	81	PHE	CG	9	89550.0*2
	HA	82	GLY	HA1	6.6	45280
	HA	88	GLY	HA2	7	10610
	HA	115	GLU-	QG	8	112500.0*2
	QB	118	HIS	HB2	6.4	516900
	QB	118	HIS	HB3	6.9	387500
81 PHE						
	HA	81	PHE	QB	4.6	586500.0*2
	HA	118	HIS	HA	4.5	326700
	HA	118	HIS	HE1	6.7	134200
	CG	87	ILE	HB	9	4767.0*2
	CG	87	ILE	QG2	10	24640.0*2
	CG	87	ILE	HG12	9	26225.0*2
	CG	87	ILE	HG13	9	16550.0*2
	CG	87	ILE	QD1	10	54800.0*2
	CG	90	ASP-	QB	10	64075.0*4
82 GLY						
	HN	82	GLY	HA1	4	284500
	HN	82	GLY	HA2	3.7	468500
	HA1	83	PRO	HG3	5.6	263500
	HA1	83	PRO	HD2	5.2	376400
	HA1	119	SER	QB	6.8	228850.0*2
	HA2	83	PRO	HG3	7	61420
	HA2	83	PRO	HD2	5.2	374700
83 PRO						
	HA	83	PRO	HB2	5	74870
	HB2	83	PRO	HG2	5.5	29710
	HB2	83	PRO	HG3	4	207400
	HB2	83	PRO	HD2	6.3	13760
	HB2	83	PRO	HD3	4.8	73760
	HB2	84	GLY	HN	7	6895
	HB3	83	PRO	HG2	6.3	14420
	HB3	83	PRO	HG3	3.9	239600
	HB3	83	PRO	HD3	4.3	138700
	HB3	84	GLY	HN	5.9	27910
	HD2	84	GLY	HA1	7	80320
	HD2	84	GLY	HA2	7	89210
84 GLY						
	HN	84	GLY	HA1	4.1	238800
	HN	84	GLY	HA2	4.1	242900
	HA1	88	GLY	HA1	4.3	592900
	HA1	88	GLY	HA2	5.6	126600
86 GLY						
	HN	86	GLY	HA1	3.8	395100
	HN	86	GLY	HA2	3.8	379500

	HA1	87	ILE	HB	4.9	85340
	HA1	87	ILE	QG2	8	71120
	HA2	87	ILE	HB	5.3	53190
	HA2	87	ILE	QG2	8	88120
87 ILE						
	HN	87	ILE	HA	4.9	87130
	HN	87	ILE	HB	4.3	180800
	HN	87	ILE	QG2	5	138300
	HN	87	ILE	QD1	5.8	50660
	HA	87	ILE	HB	3.4	762400
	HA	87	ILE	QG2	4.5	242200
	HA	87	ILE	HG12	3.2	824600
	HA	87	ILE	HG13	3.6	424000
	HA	87	ILE	QD1	3.9	611900
	HA	88	GLY	HN	4.4	162000
	HA	90	ASP-	QB	7	79950.0*2
	HB	87	ILE	QG2	3.8	651000
	HB	87	ILE	HG12	3.5	450900
	HB	87	ILE	HG13	3	1165000
	HB	87	ILE	QD1	2.8	8827000
	HB	88	GLY	HN	6.9	10820
	QG2	87	ILE	HG12	4.7	190700
	QG2	88	GLY	HN	8	151100
	QG2	88	GLY	HA1	8	82770
	QG2	88	GLY	HA2	8	143700
	QG2	90	ASP-	HA	8	188500
	HG12	87	ILE	QD1	3.5	1154000
	HG12	90	ASP-	QB	7.3	166450.0*2
	HG13	87	ILE	QD1	3.2	1899000
	HG13	90	ASP-	QB	8	25875.0*2
	QD1	90	ASP-	HN	7.2	311200
	QD1	90	ASP-	HA	8	209400
	QD1	90	ASP-	QB	9	59800.0*2
88 GLY						
	HN	88	GLY	HA1	3.7	471600
	HN	88	GLY	HA2	3.6	528600
	HA1	89	GLY	HN	3.7	501400
	HA2	89	GLY	HN	3.9	323400
89 GLY						
	HN	89	GLY	HA1	4	280400
	HN	89	GLY	HA2	4	273100
90 ASP-						
	HN	90	ASP-	HA	3.8	412900
	HN	90	ASP-	QB	4.7	232750.0*2
	HA	90	ASP-	QB	4.1	611000.0*2
	HA	91	ALA	HN	3.3	891900
	QB	91	ALA	HN	5.3	197650.0*2
91 ALA						
	HN	91	ALA	QB	4.3	351800
	HA	91	ALA	QB	3.4	1593000
	HA	92	HIS	HN	3.3	1004000
	HA	92	HIS	HA	5.9	28400
	HA	92	HIS	HB2	5.6	37510
	HA	92	HIS	HB3	5	76270
	HA	115	GLU-	QG	8	82600.0*2
	HA	118	HIS	HB2	7	68390
	HA	118	HIS	HB3	7	77120
	QB	92	HIS	HN	4.7	222400
	QB	92	HIS	HA	5.4	93000
	QB	115	GLU-	QB	9	166100.0*2
92 HIS						
	HN	92	HIS	HA	4.3	181300
	HN	92	HIS	HB2	4.5	137500
	HN	92	HIS	HB3	4.8	96920
	HA	92	HIS	HB2	4.5	133400
	HA	92	HIS	HB3	4.2	208800
	HA	92	HIS	HD2	3.8	301400
	HA	93	PHE	HN	3.4	754600
	HA	93	PHE	CG	9	90750.0*2
	HB2	93	PHE	HN	4.8	91540
	HB2	93	PHE	CG	9	50450.0*2
	HB3	93	PHE	HN	4.6	120700
	HB3	93	PHE	CG	9	53900.0*2
93 PHE						
	HN	93	PHE	HA	4.7	110600
	HN	93	PHE	HB2	4.5	138200
	HN	93	PHE	HB3	4.2	206700
	HA	93	PHE	HB2	4.2	225500
	HA	93	PHE	HB3	4.1	232600
	HA	93	PHE	CG	5.4	119500.0*2
	HA	95	GLU-	HN	5.4	156900
	HB2	93	PHE	CG	6.1	199550.0*2
	HB2	95	GLU-	HN	6.7	40840
	HB2	108	LEU	HA	6.4	153900
	HB3	93	PHE	CG	6.3	147250.0*2
	HB3	106	THR	QG2	8	111300
	CG	108	LEU	QD2	9.8	228050.0*2
	CG	116	ILE	QD1	10	38475.0*2
96 ASP-						
	QB	97	GLU-	HB2	8	51050.0*2
	QB	97	GLU-	HB3	8	54200.0*2
97 GLU-						
	HN	97	GLU-	HA	3.4	833400
	HN	97	GLU-	HB2	4.4	168200
	HN	97	GLU-	HB3	4.6	130500
	HA	97	GLU-	HB2	3.4	716500
	HA	97	GLU-	HB3	3.5	602200
98 PHE						
	HN	98	PHE	HA	4.3	177700
	HN	98	PHE	QB	5	160150.0*2
	HA	98	PHE	QB	4.6	593000.0*2
	HA	99	TRP	HN	4.4	160900
	HA	99	TRP	HA	4.5	136200
	QB	99	TRP	HA	5.6	129600.0*2
	QB	99	TRP	HB2	7.7	133950.0*2
	QB	99	TRP	HB3	7.9	113800.0*2
99 TRP						
	HN	99	TRP	HA	4.1	257400
	HN	99	TRP	HB2	4.4	162600
	HN	99	TRP	HB3	4.4	159500
	HA	99	TRP	HB2	3.9	318200
	HA	99	TRP	HB3	4.1	252000
	HA	100	THR	HN	3.6	569700
	HA	106	THR	QG2	8	50140
	HA	108	LEU	HB2	5.8	231100
	HB2	100	THR	HN	4.6	129900
	HB2	108	LEU	HB2	5.9	221100
	HB3	100	THR	HN	4.6	122900
	HB3	108	LEU	HB2	5.8	229300
	HE3	105	GLY	QA	8	39685.0*2
	HE3	106	THR	HB	7	79220
	HE3	106	THR	QG2	8	174500
	HE3	108	LEU	HA	4.8	516300
	HE3	108	LEU	HB2	7	48300
	HE3	108	LEU	HB3	7	110300
	HE3	108	LEU	QD2	8	187000
	HZ3	110	LEU	HB2	6.6	139900
	HZ3	110	LEU	HB3	7	93080
	HZ3	111	THR	HA	7	88310
100 THR						
	HA	101	THR	HB	5.1	62500
	HA	106	THR	HB	7	83900
101 THR						
	HN	101	THR	HA	3.3	940000
	HN	101	THR	HB	5.2	58210
	HA	110	LEU	HN	6.1	47870
	HB	101	THR	QG2	3.5	1167000
	HB	102	HIS	HA	5.7	33570
	QG2	102	HIS	HB2	8	39280
	QG2	102	HIS	HB3	8	83280
102 HIS						
	HN	102	HIS	HB2	4	285100
	HN	102	HIS	HB3	4.4	170900
	HB2	107	ASN	HD22	7	18160
	HB3	107	ASN	HD22	7	12030
	HE1	105	GLY	QA	8	46100.0*2
103 SER						
	HN	103	SER	HA	4.5	133100
	HN	103	SER	HB2	5	76960
	HN	103	SER	HB3	4.8	93940
	HN	107	ASN	QB	6.9	91400.0*2
	HA	103	SER	HB2	3.5	651400
	HA	103	SER	HB3	3.6	561100
	HA	105	GLY	HN	5.9	88700

	HB2	105	GLY	HN	7	12170
	HB3	105	GLY	HN	7	31970
104 GLY						
	HA1	105	GLY	HN	3.7	429400
	HA1	105	GLY	QA	4.7	438450.0*2
	HA2	105	GLY	HN	3.7	467500
105 GLY						
	HN	105	GLY	QA	4.1	265400.0*2
	QA	106	THR	HN	4.6	511500.0*2
	QA	106	THR	HB	7.7	13175.0*2
106 THR						
	HN	106	THR	HA	4.3	177200
	HN	106	THR	HB	4	309300
	HA	106	THR	HB	4.3	180600
	HA	106	THR	QG2	3.7	880600
	HA	107	ASN	HN	3.4	768000
	HA	107	ASN	QB	6.1	63750.0*2
	HB	106	THR	QG2	3.5	1086000
	HB	108	LEU	HA	6.2	69050
	HB	136	TYR	HH	7	87450
	QG2	107	ASN	HN	8	154400
	QG2	107	ASN	HA	8	83570
	QG2	108	LEU	HA	8	130800
	QG2	108	LEU	QD2	8.6	262800
	QG2	111	THR	HN	8	50150
	QG2	111	THR	HA	8	126300
	QG2	111	THR	HB	6.7	422800
	QG2	111	THR	QG2	8	364200
	QG2	136	TYR	CG	10	157750.0*2
	QG2	136	TYR	HH	5.9	727100
107 ASN						
	HA	107	ASN	QB	4.7	257500.0*2
	HA	107	ASN	HD21	3.7	325200
	HA	107	ASN	HD22	5.2	44650
	HA	108	LEU	HN	3.3	896800
	HA	108	LEU	HB2	5.4	46640
	HA	110	LEU	QD1	8	94140
	QB	107	ASN	HD21	5.5	100500.0*2
	QB	108	LEU	HN	5.4	164900.0*2
	QB	108	LEU	HA	5.7	103200.0*2
	QB	108	LEU	HB2	7.6	136950.0*2
	QB	108	LEU	HB3	8	38070.0*2
	QB	108	LEU	QD2	9	25830.0*2
	QB	110	LEU	HN	7.3	60400.0*2
	QB	110	LEU	HG	6.2	352150.0*2
	QB	110	LEU	QD1	9	39690.0*2
	QB	141	ILE	HB	8	71100.0*2
	HD21	141	ILE	QD1	8	71230
	HD22	108	LEU	QD2	8	152600
	HD22	110	LEU	HA	7	24240
	HD22	111	THR	HB	7	83600
	HD22	112	ALA	QB	7	352600
	HD22	141	ILE	QD1	8	98890
108 LEU						
	HN	108	LEU	HA	4.2	213900
	HN	108	LEU	HB2	4.3	185100
	HN	108	LEU	HB3	4.7	111900
	HN	108	LEU	QD2	6.3	31700
	HA	108	LEU	HB2	4	302300
	HA	108	LEU	HB3	3.7	502900
	HA	108	LEU	QD1	4.6	203200
	HA	108	LEU	QD2	3.7	787200
	HA	112	ALA	QB	5.1	213200
	HB2	108	LEU	HG	3.9	235100
	HB2	108	LEU	QD1	4	512300
	HB2	108	LEU	QD2	4.5	256800
	HB2	109	PHE	HN	4.7	106800
	HB3	108	LEU	HG	4.1	181900
	HB3	108	LEU	QD1	4.1	407700
	HB3	108	LEU	QD2	4	495900
	HB3	109	PHE	HN	5.6	39060
	HG	108	LEU	QD1	3.3	1739000
	HG	108	LEU	QD2	3.4	1272000
	HG	109	PHE	HB3	6.9	119100
	QD1	110	LEU	QD1	7.6	457800
	QD2	109	PHE	HN	8	30570
	QD2	111	THR	HB	8	71800
	QD2	112	ALA	HN	8	41480
	QD2	112	ALA	QB	9	202800
109 PHE						
	HN	109	PHE	HB2	3.9	324500
	HN	109	PHE	HB3	3.9	319900
	HA	109	PHE	HB2	3.8	381000
	HA	109	PHE	HB3	3.5	635900
	HA	141	ILE	QG1	8	20285.0*2
	HB2	109	PHE	CG	6	211950.0*2
	HB2	109	PHE	CZ	8.1	16750.0*2
	HB2	110	LEU	HN	4.4	166200
	HB2	110	LEU	HB2	7	46640
	HB2	141	ILE	QG2	8	59430
	HB2	141	ILE	QD1	8	33710
	HB3	109	PHE	CG	5.9	271000.0*2
	HB3	110	LEU	HN	4.3	176000
	HB3	110	LEU	HB2	7	28690
	HB3	141	ILE	QG2	8	64670
	HB3	141	ILE	QD1	8	42160
	CG	110	LEU	QD1	10	134300.0*2
	CG	113	VAL	QG2	10	69250.0*2
	CZ	110	LEU	QD1	10	102250.0*2
	CZ	113	VAL	QG2	10	174800.0*2
	CZ	141	ILE	QG2	10	64950.0*2
	HD1	112	ALA	QB	7.4	281600
	HD1	141	ILE	QD1	7.9	216400
	HE1	110	LEU	HG	7	79330
	HE1	141	ILE	QD1	7.8	236300
	HE2	113	VAL	QG1	6.2	568700
	HE2	131	VAL	QG1	7.7	241100
110 LEU						
	HN	110	LEU	HA	4	309400
	HN	110	LEU	HB2	3.9	322600
	HN	110	LEU	HB3	4.1	262000
	HN	110	LEU	HG	4.5	108100
	HN	110	LEU	QD1	5.1	114400
	HN	111	THR	HA	5.5	43600
	HN	111	THR	HB	6.3	18050
	HN	111	THR	QG2	8	97620
	HN	112	ALA	HA	6.6	44600
	HN	113	VAL	QG2	8	28470
	HN	131	VAL	QG1	8	118000
	HA	110	LEU	HB2	3.4	726000
	HA	110	LEU	HB3	3.5	605900
	HA	110	LEU	HG	4	224700
	HA	110	LEU	QD1	3.7	847500
	HA	111	THR	HN	5	71710
	HA	111	THR	HA	4.8	98000
	HA	112	ALA	HN	6.8	40060
	HA	113	VAL	HN	5.6	123500
	HA	113	VAL	QG1	8	134100
	HA	113	VAL	QG2	7.9	220400
	HA	114	HIS	HN	6.4	55030
	HA	141	ILE	QG2	7.8	233400
	HB2	110	LEU	HG	3	1358000
	HB2	110	LEU	QD1	3.7	852100
	HB2	111	THR	HN	4.5	143000
	HB2	111	THR	HB	7	39950
	HB2	112	ALA	HA	6.8	39400
	HB3	110	LEU	HG	3.3	651500
	HB3	110	LEU	QD1	4.1	421900
	HB3	111	THR	HN	4.7	106300
	HG	110	LEU	QD1	3.2	1985000
	HG	111	THR	HN	7	65520
	HG	113	VAL	QG1	4.9	1474000
	HG	114	HIS	HB3	5.7	248000
	HG	138	TYR	HB2	7	71140
	HG	138	TYR	CG	7.7	243100.0*2
	HG	139	VAL	HN	4.6	606300
	HG	139	VAL	QG1	7.4	288000
	QD1	111	THR	HA	8	10260
	QD1	113	VAL	QG2	9	173200
	QD1	136	TYR	CZ	9.5	274400.0*2
	QD1	138	TYR	HA	8	190400
	QD1	141	ILE	HA	8	81070
	QD1	141	ILE	HB	8	28600
111 THR						

	HN	111	THR	HA	3.8	401700
	HN	111	THR	HB	3.8	369500
	HA	111	THR	HB	3.3	1004000
	HA	111	THR	QG2	3.7	773400
	HA	112	ALA	HN	5.2	60560
	HA	112	ALA	QB	6	50520
	HA	136	TYR	CG	8.8	124550.0*2
	HA	136	TYR	CZ	9	75650.0*2
	HB	111	THR	QG2	3.4	1389000
	HB	112	ALA	HN	4.1	254700
	HB	112	ALA	QB	5.9	719100
	HB	136	TYR	CZ	8.4	159450.0*2
	QG2	112	ALA	HN	8	106100
112 ALA						
	HN	112	ALA	HA	4	268200
	HN	112	ALA	QB	3.9	683700
	HA	114	HIS	HN	6.5	48250
	QB	113	VAL	HN	4.6	238100
	QB	113	VAL	QG2	9	146400
	QB	115	GLU-	QG	7.7	419850.0*2
	QB	116	ILE	HA	6.9	35580
	QB	116	ILE	HG13	6	668100
	QB	116	ILE	QD1	8.8	236200
113 VAL						
	HN	113	VAL	HA	4	277100
	HN	113	VAL	HB	3.6	556000
	HN	113	VAL	QG1	4.8	164700
	HN	113	VAL	QG2	4	503100
	HA	113	VAL	HB	3.6	589800
	HA	113	VAL	QG1	3.8	676000
	HA	113	VAL	QG2	3.6	940700
	HA	114	HIS	HN	4.5	141300
	HA	116	ILE	HN	6.4	54770
	HA	116	ILE	HB	5.4	155300
	HA	116	ILE	QG2	8	88460
	HA	116	ILE	QD1	8	140200
	HB	113	VAL	QG1	3.6	1033000
	HB	113	VAL	QG2	3.6	907300
	HB	114	HIS	HN	3.7	462300
	HB	114	HIS	HB2	6.4	153900
	QG1	114	HIS	HN	5.6	857200
	QG1	114	HIS	HA	5.1	1287000
	QG1	114	HIS	HB2	8	110100
	QG1	117	GLY	HA1	7.1	330700
	QG1	117	GLY	HA2	7.2	313700
	QG1	131	VAL	HB	8	171100
	QG2	114	HIS	HN	6.4	502000
	QG2	116	ILE	QD1	9	113300
	QG2	131	VAL	HB	7.9	223400
114 HIS						
	HN	114	HIS	HA	3.4	823400
	HN	114	HIS	HB2	3.8	380700
	HN	114	HIS	HB3	3.8	382000
	HN	117	GLY	HA2	6.2	65500
	HN	131	VAL	HA	6.1	47100
	HN	131	VAL	HB	6.4	159600
	HN	131	VAL	QG1	6.4	505900
	HA	114	HIS	HB2	2.7	2963000
	HA	114	HIS	HB3	3.5	685400
	HA	115	GLU-	HN	4.4	161800
	HA	116	ILE	HN	5.3	182900
	HA	118	HIS	HD2	4.9	465300
	HA	122	LEU	QB	6.8	226650.0*2
	HA	131	VAL	QG2	6.1	620000
	HA	132	MET	HB2	5.4	321100
	HB2	115	GLU-	HN	4.5	143600
	HB2	115	GLU-	QG	8	95400.0*2
	HB2	118	HIS	HD2	7	99450
	HB2	136	TYR	HA	5.5	297300
	HB3	115	GLU-	HN	4.8	97240
	HB3	118	HIS	HD2	6.8	120200
115 GLU-						
	HN	115	GLU-	HA	3.7	461600
	HN	115	GLU-	QB	5.2	117350.0*2
	HN	115	GLU-	QG	5.7	86050.0*2
	HA	115	GLU-	QB	4.4	785500.0*2
	HA	118	HIS	HA	5.5	136300
	HA	118	HIS	HB3	5.5	134000
	HA	118	HIS	HD2	4.5	672700
	QB	116	ILE	QD1	9	11080.0*2
116 ILE						
	HN	116	ILE	HA	4.2	219500
	HN	116	ILE	HB	3.7	480800
	HN	116	ILE	QG2	4.8	171800
	HN	116	ILE	HG12	4.2	152100
	HN	116	ILE	HG13	4.2	159600
	HN	116	ILE	QD1	4.8	176400
	HN	119	SER	QB	7	80650.0*2
	HA	116	ILE	HB	4.4	169600
	HA	116	ILE	QG2	4	505000
	HA	116	ILE	HG12	3.6	398900
	HA	116	ILE	HG13	3.8	284400
	HA	116	ILE	QD1	4.6	214000
	HB	116	ILE	QG2	3.9	635200
	HB	116	ILE	HG12	3.5	474300
	HB	116	ILE	HG13	4.1	179500
	HB	116	ILE	QD1	4.1	454900
	HB	117	GLY	HN	4.7	105200
	HB	117	GLY	HA1	5	70880
	HB	117	GLY	HA2	5.9	27590
	QG2	116	ILE	HG12	4	543100
	QG2	116	ILE	HG13	3.9	620500
	QG2	116	ILE	QD1	4.6	1045000
	QG2	117	GLY	HN	8	63680
	QG2	117	GLY	HA1	8	15430
	QG2	117	GLY	HA2	8	31660
	QG2	119	SER	QB	9	157850.0*2
	QG2	120	LEU	HN	8	35550
	QG2	120	LEU	QB	9	92750.0*2
	QG2	120	LEU	QD1	8.1	345700
	QG2	120	LEU	QD2	6.9	711100
	HG12	116	ILE	QD1	3.6	972400
	HG12	119	SER	QB	7.9	117700.0*2
	HG13	116	ILE	QD1	3.6	937600
	QD1	117	GLY	HN	8	13110
	QD1	119	SER	QB	9	71550.0*2
117 GLY						
	HN	117	GLY	HA1	3.5	646500
	HN	117	GLY	HA2	3.6	567800
	HN	119	SER	QB	7.6	46930.0*2
	HA1	118	HIS	HN	4.3	177700
	HA1	120	LEU	QD2	8	63070
	HA1	132	MET	QE	8	74960
	HA2	118	HIS	HN	4.4	166700
	HA2	120	LEU	QD2	8	88420
	HA2	132	MET	QE	8	40400
118 HIS						
	HN	118	HIS	HA	3.4	798000
	HN	118	HIS	HB2	4.1	255500
	HN	118	HIS	HB3	4.2	202000
	HA	118	HIS	HB2	4	309100
	HA	118	HIS	HB3	3.8	388700
	HA	119	SER	HN	4.6	131600
	HA	132	MET	QE	8	96770
	HB2	118	HIS	HD2	4.5	108400
	HB2	119	SER	HN	4.3	193800
	HB3	118	HIS	HD2	4.9	64740
	HB3	119	SER	HN	4.5	143700
119 SER						
	HN	119	SER	HA	3.9	356200
	HN	119	SER	QB	5.6	74200.0*2
	HA	132	MET	QE	8	33860
	QB	120	LEU	QD2	9	96150.0*2
122 LEU						
	HG	154	ILE	HA	7	105100
125 SER						
	HN	125	SER	HB2	4.4	151500
	HN	125	SER	HB3	4.4	154900
	HN	130	ALA	QB	8	32440
	HN	132	MET	HB2	7	54360
	HN	132	MET	HB3	7	30160
	HN	133	PHE	HA	4.8	196700
	HA	125	SER	HB2	3.5	602800
	HA	125	SER	HB3	3.8	379000

	HA	126	SER	HN	3.6	591600
	HA	130	ALA	QB	5.9	696100
	HA	153	GLY	HA2	5.5	86280
	HB2	126	SER	HN	4.7	108100
	HB2	129	LYS+	QE	8	17670.0*2
	HB2	130	ALA	QB	7.1	339500
	HB2	132	MET	HB3	7	100700
	HB2	133	PHE	HA	7	86900
	HB2	133	PHE	CZ	9	91600.0*2
	HB2	149	ASP-	HB3	7	72730
	HB3	126	SER	HN	4.7	109200
	HB3	127	ASP-	HB3	7	18510
	HB3	128	PRO	HA	6	84440
	HB3	130	ALA	QB	7.6	255100
	HB3	132	MET	HB3	7	74040
	HB3	133	PHE	HA	7	66830
	HB3	133	PHE	CG	9	15455.0*2
	HB3	133	PHE	CZ	9	55900.0*2
126 SER						
	HN	126	SER	HB2	4.4	162400
	HN	126	SER	HB3	4.3	193300
	HA	126	SER	HB2	3.2	1169000
	HA	126	SER	HB3	2.8	2664000
	HA	127	ASP-	HB2	5.2	59500
	HA	127	ASP-	HB3	5.8	30600
	HA	128	PRO	HA	6.9	35120
	HA	128	PRO	QB	8	24080.0*2
	HB2	127	ASP-	HB3	7	74400
	HB2	133	PHE	CG	9	42430.0*2
	HB3	133	PHE	CG	9	33490.0*2
127 ASP-						
	HN	127	ASP-	HB2	3.7	461600
	HN	127	ASP-	HB3	3.7	480700
	HN	130	ALA	QB	5.2	188600
	HB2	128	PRO	HD2	7	32610
	HB2	128	PRO	HD3	7	78260
	HB2	129	LYS+	QB	6.4	322700.0*2
	HB2	130	ALA	QB	6.4	522700
	HB3	129	LYS+	QB	7	203800.0*2
	HB3	133	PHE	HA	6	206700
	HB3	133	PHE	HB2	7	95120
	HB3	149	ASP-	HN	6.6	137200
128 PRO						
	HA	128	PRO	QB	4.3	928500.0*2
	HA	128	PRO	HD2	4.3	129700
	HA	128	PRO	HD3	4.5	103600
	HA	129	LYS+	HN	4.2	212300
	HA	129	LYS+	QB	6.1	63550.0*2
	HA	133	PHE	HB2	6.1	188900
	HA	133	PHE	HB3	6.8	121300
	HA	133	PHE	CG	8	207100.0*2
	QB	128	PRO	HD2	5	210800.0*2
	QB	128	PRO	HD3	4.9	271600.0*2
	QB	129	LYS+	HN	5.6	116650.0*2
	QB	129	LYS+	QB	7.1	393750.0*4
	QB	133	PHE	HB2	7.1	185150.0*2
	QB	133	PHE	CG	10	98850.0*4
	HD2	129	LYS+	HN	7	69780
	HD2	129	LYS+	QB	7	197850.0*2
	HD2	133	PHE	CG	9	36375.0*2
	HD3	129	LYS+	HN	6.2	183000
	HD3	129	LYS+	QB	6.6	266450.0*2
	HD3	133	PHE	CG	9	32485.0*2
129 LYS+						
	HN	129	LYS+	HA	3.5	677500
	HN	129	LYS+	QB	4.4	389850.0*2
	HN	129	LYS+	HG2	3.7	324400
	HN	129	LYS+	HG3	3.8	296600
	HN	147	SER	HB2	7	52780
	HN	147	SER	HB3	7	75780
	HA	129	LYS+	QB	4.2	1183000.0*2
	HA	129	LYS+	HG2	3.2	813200
	HA	129	LYS+	HG3	3.4	565600
	HA	129	LYS+	QD	5.5	105850.0*2
	HA	129	LYS+	QE	6.8	23030.0*2
	QB	129	LYS+	HG2	4.4	543000.0*2
	QB	129	LYS+	HG3	4.5	529500.0*2
	QB	129	LYS+	QD	7.7	25275.0*4
	QB	129	LYS+	QE	7	56050.0*4
	QB	131	VAL	QG1	9	101500.0*2
	QB	147	SER	HB2	6.7	246850.0*2
	QB	147	SER	HB3	7	198050.0*2
	QB	149	ASP-	HA	8	74250.0*2
	QB	149	ASP-	HB2	6.7	245000.0*2
	QB	149	ASP-	HB3	7	202900.0*2
	HG2	129	LYS+	QE	5.6	96900.0*2
	HG3	129	LYS+	QE	5.5	103100.0*2
130 ALA						
	HN	130	ALA	HA	3.8	390100
	HN	130	ALA	QB	3.4	1457000
	HA	130	ALA	QB	3.7	946100
	HA	131	VAL	HN	3.3	860300
	HA	131	VAL	HA	4.3	194800
	HA	131	VAL	HB	5.2	58400
	HA	131	VAL	QG2	8	85170
	HA	132	MET	HN	6.3	62560
	HA	146	LEU	HA	4.5	310100
	HA	147	SER	HN	5	164900
	HA	147	SER	HB2	5.6	263300
	QB	131	VAL	HN	4.3	373600
	QB	131	VAL	HA	5.4	87080
	QB	131	VAL	HB	6	680100
	QB	131	VAL	QG2	7.1	634900
	QB	132	MET	HN	4.5	448300
	QB	132	MET	HA	6.1	76900
	QB	132	MET	HB3	8	196100
	QB	133	PHE	HA	6.1	71940
	QB	133	PHE	HB2	8	163800
	QB	133	PHE	HB3	6.5	480900
	QB	133	PHE	CG	10	26940.0*2
	QB	133	PHE	CZ	10	32580.0*2
	QB	146	LEU	HA	8	193300
	QB	147	SER	HA	7.1	336900
131 VAL						
	HN	131	VAL	HA	4.5	134400
	HN	131	VAL	HB	3.6	515700
	HN	131	VAL	QG1	6.1	40640
	HN	131	VAL	QG2	4.1	424600
	HN	147	SER	HA	6.4	36530
	HN	147	SER	HB2	7	28050
	HN	147	SER	HB3	7	60630
	HA	131	VAL	HB	3.3	951500
	HA	131	VAL	QG2	3.9	617600
	HA	132	MET	HN	4.6	126000
	HA	132	MET	HB3	7	5485
	HA	133	PHE	HN	6	82600
	HB	131	VAL	QG1	4.8	172000
	HB	131	VAL	QG2	3.6	989400
	HB	132	MET	HN	4.8	91020
	HB	132	MET	HA	4.7	107700
	HB	147	SER	HB3	6.4	162300
	QG1	146	LEU	HA	5.6	903400
	QG1	146	LEU	HB2	7.3	299800
	QG1	146	LEU	HB3	7.1	336800
	QG1	150	ASP-	HA	8	102500
	QG1	150	ASP-	HB2	7.8	225600
	QG1	150	ASP-	HB3	7.7	243800
	QG2	132	MET	HN	7.2	321600
	QG2	136	TYR	HB2	7.1	330200
	QG2	136	TYR	CZ	9.2	322750.0*2
	QG2	146	LEU	HA	8	212100
	QG2	147	SER	HB3	7.9	214500
	QG2	150	ASP-	HB2	8	33940
	QG2	150	ASP-	HB3	8	41640
132 MET						
	HN	132	MET	HA	3.7	483400
	HN	132	MET	HB2	4.9	82710
	HN	132	MET	HB3	4.7	115600
	HA	132	MET	HB2	4.9	88880
	HA	132	MET	HB3	4.8	92020
	HA	132	MET	QE	4.3	344300
	HB2	132	MET	QE	5	135200
	HB2	133	PHE	HA	4.5	149200
	HB3	132	MET	QE	5.5	70350

	HB3	133	PHE	HA	5.9	28390
133 PHE						
	HN	133	PHE	HA	3.7	490500
	HN	133	PHE	HB2	3.7	428400
	HN	133	PHE	HB3	3.8	426200
	HA	133	PHE	HB2	4.1	249000
	HA	133	PHE	HB3	3.7	432100
	HA	133	PHE	CG	4.7	361450.0*2
	HB2	133	PHE	CG	6	222200.0*2
	HB2	135	THR	HN	7	12530
	HB3	133	PHE	CG	5.8	298450.0*2
	HB3	135	THR	HN	6.8	39560
	CG	135	THR	HA	9	20715.0*2
	CG	135	THR	HB	6.7	525000.0*2
	CG	135	THR	QG2	9.9	222400.0*2
135 THR						
	HN	135	THR	HA	4.3	180800
	HN	135	THR	HB	4	298200
	HN	135	THR	QG2	4.8	172500
	HA	135	THR	HB	3.4	825800
	HA	135	THR	QG2	3.5	1070000
	HA	136	TYR	HN	3.3	902500
	HA	136	TYR	HB2	4.6	122400
	HA	136	TYR	CG	9	48440.0*2
	HB	135	THR	QG2	3.4	1305000
	HB	136	TYR	HN	4.9	82300
	QG2	136	TYR	HN	7.7	242600
	QG2	136	TYR	CG	10	60800.0*2
136 TYR						
	HN	136	TYR	HB2	3.8	371700
	HN	136	TYR	HB3	4	273400
	HA	136	TYR	HB2	3.2	1069000
	HA	136	TYR	HB3	3.3	854000
	HA	136	TYR	CG	4.6	380900.0*2
	HA	137	LYS+	HN	3	1801000
	HB2	136	TYR	CG	5.5	460450.0*2
	HB2	137	LYS+	HA	4.3	193900
	HB3	136	TYR	CG	5.6	399950.0*2
	CG	137	LYS+	HA	9	67000.0*2
	CG	138	TYR	HA	9	79450.0*2
	CG	138	TYR	HB2	9	61050.0*2
	CG	138	TYR	HB3	7.5	294100.0*2
	CZ	139	VAL	HB	9	58250.0*2
	CZ	139	VAL	QG1	9.5	276850.0*2
	CZ	139	VAL	QG2	9.2	316250.0*2
137 LYS+						
	HN	137	LYS+	HA	3.8	365400
	HN	137	LYS+	HB2	4.3	178300
	HN	137	LYS+	HB3	4.3	177900
	HA	137	LYS+	HB2	3.6	554600
	HA	137	LYS+	HB3	3.7	469600
	HA	137	LYS+	QG	4.3	370800.0*2
	HA	137	LYS+	QD	4.3	676500.0*2
	HA	138	TYR	HN	3.1	1274000
	HA	138	TYR	HB2	4.7	111200
	HA	138	TYR	HB3	5.1	66560
	HB2	137	LYS+	QG	4.3	675000.0*2
	HB2	138	TYR	HN	4.5	133200
	HB3	137	LYS+	QG	4.3	691500.0*2
	HB3	138	TYR	HN	4.6	119700
138 TYR						
	HN	138	TYR	HA	4	307500
	HN	138	TYR	HB2	3.5	640600
	HN	138	TYR	HB3	3.6	529400
	HA	138	TYR	HB2	3.7	488100
	HA	138	TYR	HB3	3.7	437500
	HA	138	TYR	CG	4.5	509000.0*2
	HA	139	VAL	HN	3.1	1472000
	HA	139	VAL	HB	5.8	31820
	HA	139	VAL	QG2	8	150600
	HB2	138	TYR	CG	5.9	267800.0*2
	HB2	139	VAL	HN	4.8	90190
	HB3	139	VAL	HN	5.3	49700
	HB3	139	VAL	HA	4.4	154500
	CG	139	VAL	HA	9	79050.0*2
	CG	139	VAL	QG1	8.8	402500.0*2
139 VAL						
	HN	139	VAL	HA	3.9	326300
	HN	139	VAL	HB	4.6	122100
	HN	139	VAL	QG1	5.1	113400
	HN	139	VAL	QG2	4	538300
	HA	139	VAL	HB	3.2	1130000
	HA	139	VAL	QG1	3.8	647700
	HA	139	VAL	QG2	3.9	596400
	HA	140	ASP-	HN	3.2	1210000
	HA	140	ASP-	HA	4.4	153800
	HB	139	VAL	QG1	3.2	2050000
	HB	139	VAL	QG2	3.4	1408000
	HB	140	ASP-	HN	3.7	462600
	HB	141	ILE	QG2	7.6	262200
	HB	143	THR	HB	7	13050
	QG1	140	ASP-	QB	9	73850.0*2
	QG1	141	ILE	HN	7.9	223800
	QG1	143	THR	HB	8	130700
	QG1	144	PHE	HA	6.2	599800
	QG1	144	PHE	HB2	7.8	235800
	QG1	144	PHE	HB3	7.6	261400
	QG2	140	ASP-	HN	8	202200
140 ASP-						
	HN	140	ASP-	HA	3.1	1382000
	HN	140	ASP-	QB	4	844000.0*2
	HA	140	ASP-	QB	4.2	564000.0*2
	HA	141	ILE	HN	3.2	1191000
	HA	141	ILE	HB	5.7	32250
	HA	141	ILE	QG2	7.4	278700
	HA	142	ASN	HD21	6.2	174700
	QB	141	ILE	HB	8	65700.0*2
	QB	141	ILE	QG2	9	135000.0*2
	QB	142	ASN	HN	7.5	50400.0*2
	QB	143	THR	HA	7.1	77200.0*2
	QB	143	THR	HB	8	39080.0*2
	QB	144	PHE	HN	7.3	63100.0*2
	QB	144	PHE	HA	7.4	53250.0*2
141 ILE						
	HN	141	ILE	HA	3.4	711700
	HN	141	ILE	HB	3.8	376500
	HN	141	ILE	QG2	4.3	310200
	HN	141	ILE	QG1	5.1	173550.0*2
	HN	141	ILE	QD1	5.1	116400
	HA	141	ILE	HB	3.4	822100
	HA	141	ILE	QG2	3.7	799900
	HA	141	ILE	QG1	4.5	255600.0*2
	HA	141	ILE	QD1	4.4	281500
	HA	142	ASN	HN	5.2	58140
	HA	142	ASN	HD22	6.7	129100
	HA	144	PHE	HN	4.8	304000
	HA	144	PHE	HA	5	238600
	HA	144	PHE	HB2	4.7	362000
	HA	144	PHE	HB3	5.2	205100
	HB	141	ILE	QG2	3.6	945000
	HB	141	ILE	QG1	4.5	498950.0*2
	HB	141	ILE	QD1	3.9	632300
	HB	142	ASN	HN	5.3	52440
	HB	142	ASN	HA	4.9	82900
	HB	142	ASN	HD21	7	22460
	HB	144	PHE	HN	5.1	208400
	HB	144	PHE	CZ	9	38440.0*2
	QG2	142	ASN	HN	8	197000
	QG2	142	ASN	HA	8	167700
	QG2	144	PHE	HN	8	53820
	QG1	141	ILE	QD1	4.5	1197000.0*2
	QG1	142	ASN	HN	8	47530.0*2
142 ASN						
	HN	142	ASN	HA	4.1	256200
	HN	142	ASN	HB2	3.4	724400
	HN	142	ASN	HB3	3.7	492700
	HN	144	PHE	HA	6.2	65400
	HA	142	ASN	HB2	3.4	798400
	HA	142	ASN	HB3	3.2	1100000
	HA	143	THR	HN	4.2	208900
	HA	143	THR	HB	5.8	30200
	HB2	142	ASN	HD22	4.1	197800
	HB2	143	THR	QG2	7.3	303400
	HB3	142	ASN	HD22	4.1	186800

	HB3	143	THR	QG2	8	176200
143 THR						
	HN	143	THR	HA	3.8	376200
	HN	143	THR	HB	4.6	130800
	HN	144	PHE	HA	5.6	39600
	HA	143	THR	QG2	3.3	1495000
	HA	144	PHE	HN	4.1	241000
	HB	143	THR	QG2	3.3	1546000
	HB	144	PHE	HN	5	70280
	HB	144	PHE	HB3	7	11470
	QG2	144	PHE	HB3	8	181000
144 PHE						
	HN	144	PHE	HA	2.9	2225000
	HN	144	PHE	HB2	3.6	595400
	HN	144	PHE	HB3	3.6	546800
	HA	144	PHE	HB2	4	306900
	HA	144	PHE	HB3	4	278300
	HA	145	ARG+	HD2	5.6	260800
	HA	146	LEU	HN	6.5	49430
	HB2	144	PHE	CZ	7.5	29755.0*2
	HB2	146	LEU	QD1	5.8	738500
	HB3	144	PHE	CZ	7.6	29270.0*2
145 ARG+						
	HN	145	ARG+	HA	3.9	357800
	HN	145	ARG+	HB2	4.5	147700
	HN	145	ARG+	HB3	4.1	232500
	HN	145	ARG+	HG2	4.7	84800
	HN	145	ARG+	HG3	4.7	85240
	HA	145	ARG+	HB2	3.4	821600
	HA	145	ARG+	HB3	3.3	948900
	HA	145	ARG+	HG2	4.2	166800
	HA	145	ARG+	HG3	4.2	162000
	HA	145	ARG+	HD2	4	205600
	HA	145	ARG+	HD3	4.6	98600
	HA	146	LEU	HN	3.2	1208000
	HA	146	LEU	HA	4.4	152700
	HB2	145	ARG+	HG2	2.9	1399000
	HB2	145	ARG+	HG3	3	1144000
	HB2	145	ARG+	HD2	3.7	347900
	HB2	145	ARG+	HD3	3.9	256800
	HB2	146	LEU	HN	4.2	217100
	HB3	145	ARG+	HD2	4.5	111700
	HB3	145	ARG+	HD3	3.9	258300
	HB3	146	LEU	HN	4.1	253600
	HB3	151	ILE	HG13	6.6	138900
	HG2	145	ARG+	HD2	3.6	435800
	HG2	145	ARG+	HD3	3.6	439800
	HG2	146	LEU	HN	7	73770
	HG2	146	LEU	HA	5.1	406800
	HG3	145	ARG+	HD2	3.2	807400
	HG3	145	ARG+	HD3	3.3	711700
	HG3	146	LEU	HN	7	66450
	HG3	151	ILE	QD1	6.7	426500
	HD3	147	SER	HA	5.5	300600
146 LEU						
	HN	146	LEU	HA	3.8	371800
	HN	146	LEU	HB2	4.2	223500
	HN	146	LEU	HB3	4.2	228800
	HA	146	LEU	HB2	4.2	205400
	HA	146	LEU	HB3	4.2	209000
	HA	146	LEU	HG	3.8	277100
	HA	146	LEU	QD1	5.1	113000
	HA	146	LEU	QD2	4.7	179900
	HA	147	SER	HN	3.6	528200
	HA	147	SER	HA	4.4	157000
	HA	150	ASP-	HB2	5	242800
	HA	151	ILE	QD1	8	97320
	HB2	146	LEU	QD1	4	480300
	HB2	146	LEU	QD2	3.7	752600
	HB2	150	ASP-	HB2	6.4	158600
	HB2	154	ILE	HG12	5	419700
	HB3	146	LEU	QD1	4.3	309900
	HB3	146	LEU	QD2	3.6	951500
	HB3	150	ASP-	HB2	6.8	124400
	HB3	154	ILE	HG12	5.2	352500
	HG	150	ASP-	HB2	5.8	235800
	HG	150	ASP-	HB3	5.9	220500
	QD1	148	ALA	HA	7.3	306300
	QD1	150	ASP-	HB2	8	112900
	QD1	154	ILE	HB	6.1	606000
	QD2	150	ASP-	HB2	8	106900
	QD2	150	ASP-	HB3	8	94180
	QD2	151	ILE	HA	8	149400
	QD2	151	ILE	HB	8	14230
	QD2	151	ILE	HG12	8	174200
	QD2	151	ILE	HG13	8	98880
	QD2	154	ILE	QG2	9	151900
147 SER						
	HN	147	SER	HA	3.6	556300
	HN	147	SER	HB2	4.2	212600
	HN	147	SER	HB3	4	304400
	HN	149	ASP-	HB2	6.4	56090
	HN	150	ASP-	HB2	6	81710
	HN	150	ASP-	HB3	5.8	104500
	HA	147	SER	HB2	3.1	1324000
	HA	147	SER	HB3	3.2	1078000
	HA	148	ALA	HA	4.5	151200
	HA	148	ALA	QB	5.1	128700
	HB2	148	ALA	HN	4.3	198100
	HB2	148	ALA	QB	8	139700
	HB2	150	ASP-	HA	5.4	152100
	HB3	148	ALA	HN	4.6	127600
	HB3	148	ALA	QB	8	118500
	HB3	150	ASP-	HA	5.4	152700
	HB3	150	ASP-	HB2	7	49040
	HB3	150	ASP-	HB3	7	24530
148 ALA						
	HN	148	ALA	HA	3.8	423500
	HN	148	ALA	QB	3.9	627800
	HA	148	ALA	QB	3.2	2013000
	HA	151	ILE	HN	5.3	179200
	HA	151	ILE	HA	5.4	150500
	HA	151	ILE	HB	4.6	431100
	HA	151	ILE	QG2	7.9	214100
	HA	151	ILE	HG12	3.8	1271000
	HA	151	ILE	QD1	7.9	222500
	QB	149	ASP-	HN	4.7	203800
	QB	149	ASP-	HA	4.7	207300
	QB	149	ASP-	HB2	8	61080
	QB	149	ASP-	HB3	8	33040
	QB	151	ILE	HB	5.8	787700
	QB	151	ILE	QG2	9	151700
	QB	151	ILE	QD1	7.3	548900
	QB	152	ARG+	HN	6.2	68740
	QB	152	ARG+	HB3	7	367100
	QB	152	ARG+	QD	9	28415.0*2
149 ASP-						
	HN	149	ASP-	HA	3.9	354200
	HN	149	ASP-	HB2	4.3	185900
	HN	149	ASP-	HB3	4.3	197600
	HA	149	ASP-	HB2	3.2	1032000
	HA	149	ASP-	HB3	3.7	445400
	HA	150	ASP-	HN	4.5	134000
	HA	152	ARG+	HN	5.3	175200
	HA	152	ARG+	HB2	4.9	276400
	HA	152	ARG+	HG2	5.1	388600
	HA	152	ARG+	HG3	5.4	318300
	HA	152	ARG+	QD	8	55400.0*2
	HB2	150	ASP-	HN	4.3	181800
	HB3	150	ASP-	HN	4.4	152300
	HB3	150	ASP-	HB3	5.4	319100
150 ASP-						
	HN	150	ASP-	HB2	4.3	191200
	HN	150	ASP-	HB3	4.2	216000
	HB2	151	ILE	HN	4.2	230200
	HB2	154	ILE	HG12	6.2	181800
	HB3	151	ILE	HN	4.3	195600
	HB3	151	ILE	QD1	8	142200
	HB3	154	ILE	HG12	5.9	216400
151 ILE						
	HN	151	ILE	HA	3.8	422200
	HN	151	ILE	HB	3.6	579400
	HN	151	ILE	QG2	4.2	392500
	HN	151	ILE	HG12	3.9	260600

	HN	151	ILE	HG13	4.2	161600
	HN	151	ILE	QD1	4.5	251700
	HN	152	ARG+	QD	8	46780.0*2
	HN	154	ILE	QG2	8	147700
	HA	151	ILE	HB	4.3	192500
	HA	151	ILE	QG2	3.6	1035000
	HA	151	ILE	HG12	4.2	172300
	HA	151	ILE	HG13	3.2	773200
	HA	151	ILE	QD1	4.8	175900
	HA	152	ARG+	HN	4.9	79890
	HA	152	ARG+	HG2	4.8	496000
	HA	154	ILE	HN	5.3	175700
	HA	154	ILE	QG2	5.7	797600
	HA	154	ILE	HG13	4	1104000
	HA	155	GLN	HG2	7	26510
	HB	151	ILE	QG2	3.5	1202000
	HB	151	ILE	HG13	3.1	943000
	HB	151	ILE	QD1	3.4	1413000
	HB	152	ARG+	HN	3.8	369400
	HB	152	ARG+	HB2	5.5	289900
	QG2	151	ILE	HG12	3.8	729800
	QG2	151	ILE	HG13	3.3	1539000
	QG2	151	ILE	QD1	4.2	1982000
	QG2	152	ARG+	HN	7.9	222500
	QD1	152	ARG+	HN	8	79320
152 ARG+						
	HN	152	ARG+	HA	3.6	542300
	HN	152	ARG+	HB2	3.5	608900
	HN	152	ARG+	HB3	3.6	564600
	HN	152	ARG+	HG2	3.8	281000
	HN	152	ARG+	HG3	4.2	152100
	HA	152	ARG+	HB2	3.4	739400
	HA	152	ARG+	HB3	3.1	1337000
	HA	152	ARG+	HG2	3.8	275500
	HA	152	ARG+	HG3	3.8	275800
	HA	152	ARG+	QD	5.9	65500.0*2
	HA	155	GLN	HG3	5.5	299200
	HB2	152	ARG+	HG2	2.9	1623000
	HB2	152	ARG+	HG3	2.9	1591000
	HB2	152	ARG+	QD	4.8	314350.0*2
	HB2	153	GLY	HA1	5.8	30360
	HB3	152	ARG+	QD	4.7	337800.0*2
	HB3	153	GLY	HN	4	294400
	HG2	152	ARG+	QD	4.1	1079500.0*2
	HG2	153	GLY	HN	6.4	156100
	HG3	152	ARG+	QD	4	1261500.0*2
	HG3	153	GLY	HN	6.3	166300
153 GLY						
	HN	153	GLY	HA1	3.5	641700
	HN	153	GLY	HA2	3.5	599700
	HA1	154	ILE	HN	3.9	328300
	HA1	157	LEU	QD1	7.3	295400
	HA2	154	ILE	HN	4.1	237900
	HA2	157	LEU	QD1	7.3	305200
154 ILE						
	HN	154	ILE	HA	3.8	368800
	HN	154	ILE	HB	3.7	481300
	HN	154	ILE	QG2	3.5	1106000
	HN	154	ILE	QD1	5.1	122800
	HA	154	ILE	HB	3.7	459000
	HA	154	ILE	QG2	4	504300
	HA	154	ILE	HG12	3.5	485700
	HA	154	ILE	QD1	4.4	281400
	HA	157	LEU	HB2	6.5	50320
	HA	157	LEU	HB3	6.4	54550
	HB	154	ILE	QG2	3.7	846500
	HB	154	ILE	HG13	3	1154000
	HB	154	ILE	QD1	3.9	555200
	HB	155	GLN	HB3	5.7	249600
	QG2	154	ILE	QD1	4.5	1124000
	QG2	155	GLN	HG2	7.4	285200
	QG2	155	GLN	HG3	8	175600
	HG12	154	ILE	QD1	3.6	980400
	QD1	155	GLN	HB2	8	35940
	QD1	155	GLN	HB3	8	41330
	QD1	155	GLN	HG2	7.4	286900
	QD1	155	GLN	HG3	8	103700
	QD1	157	LEU	QD1	7	666100
155 GLN						
	HN	155	GLN	HA	3.8	367000
	HN	155	GLN	HB2	3.9	345200
	HN	155	GLN	HB3	4.1	241200
	HN	155	GLN	HG2	3.7	325400
	HN	155	GLN	HG3	4.1	187000
	HN	156	SER	HA	5.3	53330
	HA	155	GLN	HB2	4.1	253500
	HA	155	GLN	HB3	3.9	323300
	HA	155	GLN	HG2	4.1	198300
	HA	155	GLN	HG3	3.7	325200
	HB2	155	GLN	HG2	3.8	287900
	HB2	155	GLN	HG3	3.6	399200
	HB2	156	SER	HN	4.5	135800
	HB3	155	GLN	HG2	3.9	267200
	HB3	155	GLN	HG3	3.6	399200
	HB3	156	SER	HN	4.7	110600
	HG2	156	SER	HN	5.7	260300
	HG3	156	SER	HN	5.2	357900
156 SER						
	HN	156	SER	HA	3.6	544600
	HA	156	SER	HB3	2.8	2366000
157 LEU						
	HN	157	LEU	HA	3.7	472700
	HN	157	LEU	HB2	4	269200
	HN	157	LEU	HB3	4.4	159000
	HN	157	LEU	QD2	4.6	215300
	HA	157	LEU	HB2	4.3	181800
	HA	157	LEU	HB3	3.3	928200
	HA	157	LEU	QD1	4.6	205600
	HA	157	LEU	QD2	3.5	1063000
	HB2	157	LEU	HG	3.4	582600
	HB2	157	LEU	QD1	3.8	721000
	HB2	158	TYR	CG	8.9	117300.0*2
	HB3	157	LEU	HG	3.6	382300
	HB3	157	LEU	QD1	3.7	802800
	HB3	158	TYR	CG	9	92000.0*2
	HG	157	LEU	QD2	3.5	1177000
	QD2	158	TYR	CG	10	29715.0*2
5 TRP						
	QB	9	TYR	HN	6.5	369200.0*2
	HD1	5	TRP	HE1	3.9	621700
	HE1	6	ARG+	HN	6.1	353100
6 ARG+						
	HN	6	ARG+	HA	3.4	2186000
	HN	6	ARG+	QB	4.6	720000.0*2
	HN	6	ARG+	QG	4.9	656000.0*2
	HN	6	ARG+	QD	5.1	444650.0*2
	HN	10	ILE	QD1	8	78990
7 LYS+						
	HB3	10	ILE	HN	6.1	197500
	HG2	9	TYR	HN	6.7	226800
	HG3	9	TYR	HN	6.2	330300
8 HIS						
	HN	10	ILE	HN	6.1	194900
	HN	44	LYS+	HN	6	96940
	HB2	9	TYR	HN	5.6	105400
	HB3	9	TYR	HN	5.2	166200
9 TYR						
	HN	9	TYR	HA	3.4	2048000
	HN	9	TYR	HB2	3.7	1223000
	HN	9	TYR	HB3	3.7	1216000
	HN	10	ILE	HN	4.3	481500
	HN	10	ILE	QD1	8	16330
	HA	10	ILE	HN	3.4	2139000
	HA	44	LYS+	HN	4.1	1051000
	HB2	10	ILE	HN	5.1	171200
	HB3	10	ILE	HN	5.7	89510
10 ILE						
	HN	10	ILE	HA	4.6	345800
	HN	10	ILE	HB	3.7	1280000
	HN	10	ILE	QG2	4.7	336400
	HN	10	ILE	HG12	4.3	362200
	HN	10	ILE	HG13	4.7	210700
	HN	10	ILE	QD1	5	216100
	HN	11	THR	HN	5.3	140200

	HN	12	TYR	HN	6.9	91400
	HN	45	PHE	HA	5.2	247500
	HA	46	SER	HN	6.7	51220
	HB	11	THR	HN	5.7	90160
	HB	44	LYS+	HN	5	988000
	HB	45	PHE	HN	5.4	654400
	QG2	11	THR	HN	4.6	878100
	QG2	54	ASP-	HN	8	75280
	QG2	55	ILE	HN	8	64960
	HG12	44	LYS+	HN	5.6	546700
	QD1	11	THR	HN	7.3	136400
11 THR						
	HN	11	THR	HA	4.4	457700
	HN	11	THR	HB	3.9	875000
	HN	11	THR	QG2	4.1	718200
	HN	12	TYR	HN	5.5	114500
	HN	46	SER	HN	5.7	138000
	HN	54	ASP-	HN	4.8	367100
	HN	54	ASP-	HA	6.5	62220
	HN	54	ASP-	HB2	5.6	579500
	HN	54	ASP-	HB3	7	103500
	HN	55	ILE	HN	4.8	373900
	HA	12	TYR	HN	3.4	2144000
	HA	46	SER	HN	4.2	877000
	HA	54	ASP-	HN	4.9	355700
	HB	12	TYR	HN	3.9	893000
	HB	54	ASP-	HN	5.5	636100
12 TYR						
	HN	12	TYR	HA	4.2	569600
	HN	12	TYR	HB2	6.3	48970
	HN	12	TYR	HB3	7	21910
	HN	12	TYR	CG	7.4	86500.0*2
	HN	13	ARG+	HA	5.6	104300
	HN	46	SER	HN	4.9	325000
	HN	47	LYS+	HA	4.7	451400
	HN	48	ILE	HG13	5.3	756100
	HN	53	ALA	QB	4.9	703400
	HN	55	ILE	QD1	6.5	221100
	HA	13	ARG+	HN	3.7	1273000
	HA	55	ILE	HN	4.6	534900
	HB3	13	ARG+	HN	5.2	161600
	CZ	46	SER	HN	9	10805.0*2
13 ARG+						
	HN	13	ARG+	HA	4.9	220200
	HN	13	ARG+	QB	5.1	364150.0*2
	HN	13	ARG+	QG	5.3	366400.0*2
	HN	13	ARG+	QD	5.3	358050.0*2
	HN	14	ILE	HN	4.4	452000
	HN	14	ILE	HB	6.8	32290
	HN	14	ILE	QG2	7.2	140900
	HN	14	ILE	HG13	5	978400
	HN	48	ILE	HG12	5.5	601200
	HN	53	ALA	QB	4.7	827300
	HN	55	ILE	HN	4.7	439200
	HN	56	LEU	HA	5.2	238900
	HN	57	VAL	HN	4.7	439600
	HA	14	ILE	HN	3.5	1609000
	HA	57	VAL	HN	7	37290
	QG	49	ASN	HD21	8	24545.0*2
	QG	51	GLY	HN	8	158600.0*2
	QD	14	ILE	HN	8	13720.0*2
	QD	48	ILE	HN	8	21110.0*2
14 ILE						
	HN	14	ILE	HA	5.2	152900
	HN	14	ILE	HB	3.5	1863000
	HN	14	ILE	QG2	5.2	177700
	HN	14	ILE	HG13	4	588000
	HN	14	ILE	QD1	4.3	546200
	HN	15	ASN	HN	5.3	134200
	HN	48	ILE	HN	5.1	284100
	HN	56	LEU	HA	6.6	57690
	HN	57	VAL	HN	5.3	216900
	HN	57	VAL	HB	7	59700
	HA	57	VAL	HN	4.7	456700
	HB	16	ASN	HN	7	45000
	QG2	15	ASN	HN	5.7	359400
	QG2	16	ASN	HN	4.6	870500
	QG2	17	TYR	HN	8	21440
	HG13	15	ASN	HN	6.2	337300
	HG13	16	ASN	HN	6.1	360000
	HG13	49	ASN	HD21	6.3	307600
	HG13	49	ASN	HD22	5.8	457700
	QD1	15	ASN	HN	6.4	224000
	QD1	27	ASP-	HN	5.2	538300
15 ASN						
	HN	15	ASN	HA	3.4	2021000
	HN	15	ASN	HB2	4.2	617200
	HN	15	ASN	HB3	4.1	663500
	HN	16	ASN	HN	4	754500
	HN	16	ASN	HA	4.6	333800
	HN	17	TYR	HN	7	19120
	HN	56	LEU	HA	7	20720
	HN	56	LEU	HB2	6.9	192400
	HN	56	LEU	QD2	5.6	389100
	HN	57	VAL	HN	4.8	393500
	HN	57	VAL	HB	6.4	291600
	HN	58	VAL	HN	7	28200
	HA	16	ASN	HN	4	750100
	HB2	16	ASN	HN	4.2	547300
	HB2	59	PHE	HN	5.8	457400
	HB3	16	ASN	HN	4.6	335800
	HB3	57	VAL	HN	7	32670
	HB3	59	PHE	HN	5.3	763000
	HD21	58	VAL	HA	3.4	6835000
	HD21	59	PHE	HB2	7	147700
	HD22	58	VAL	HA	3.9	3464000
	HD22	59	PHE	HB2	7	52590
16 ASN						
	HN	16	ASN	HA	3.7	1313000
	HN	16	ASN	HB2	4.1	649000
	HN	16	ASN	HB3	4.2	614300
	HN	17	TYR	HN	4.8	242100
	HN	17	TYR	CG	9	14860.0*2
	HN	57	VAL	HB	7	12540
	HN	58	VAL	QG2	6.5	212700
	HN	59	PHE	HN	4.6	511100
	HN	59	PHE	CG	9	106250.0*2
	HA	17	TYR	HN	3.4	2026000
	HB2	16	ASN	HD22	3.8	787000
	HB3	16	ASN	HD21	4	547600
	HB3	16	ASN	HD22	3.8	754500
	HD21	17	TYR	HB3	7	125700
	HD21	60	ALA	HA	5.5	611000
	HD21	60	ALA	QB	7.9	96500
17 TYR						
	HN	17	TYR	HA	4.3	484600
	HN	17	TYR	HB2	3.5	1747000
	HN	17	TYR	HB3	3.7	1342000
	HN	17	TYR	CZ	5.7	204800.0*2
	HN	18	THR	HN	5	198300
	HN	23	ARG+	HG3	7	75370
	HB3	18	THR	HN	3.8	1009000
	HB3	20	ASP-	HN	6.7	110100
	QE	18	THR	HN	9	90400.0*2
	CZ	26	VAL	HN	9	113350.0*2
	CZ	27	ASP-	HN	9	151650.0*2
18 THR						
	HN	18	THR	HA	3.6	1404000
	HN	18	THR	HB	4.8	271000
	HN	18	THR	QG2	4.1	736000
	HN	20	ASP-	HN	5.5	350600
	HN	21	MET	HN	6.5	131600
	HN	21	MET	QE	8	40940
	QG2	21	MET	HN	4.3	1142000
19 PRO						
	HA	20	ASP-	HN	3.8	1089000
	HA	21	MET	HN	6	204900
	HB3	20	ASP-	HN	4.4	433200
	HD3	20	ASP-	HN	5.6	545900
20 ASP-						
	HN	20	ASP-	HA	3.7	1156000
	HN	21	MET	HN	4	799400
	HN	21	MET	QE	5.5	419900
	HN	26	VAL	QG1	8	21890

21 MET						
	HN	21	MET	HA	3.2	2773000
	HN	21	MET	HB2	3.9	956600
	HN	21	MET	HB3	4	770200
	HN	21	MET	QE	4.1	751300
	HN	22	ASN	HN	4.5	365900
	HN	22	ASN	HA	5	200700
	HN	26	VAL	QG1	6.5	212600
	HA	22	ASN	HN	3.1	3460000
	HB2	22	ASN	HN	4.1	624800
	HB3	22	ASN	HN	3.9	913300
22 ASN						
	HN	22	ASN	HA	3.3	2466000
	HN	22	ASN	HB2	3.8	1041000
	HN	22	ASN	HB3	3.8	980300
	HN	22	ASN	HD21	4.3	355800
	HN	22	ASN	HD22	4	568400
	HN	26	VAL	HA	6.6	118100
	HN	26	VAL	QG1	7.2	141500
	HA	22	ASN	HD21	5.6	73680
	HA	22	ASN	HD22	5.4	92920
	HA	23	ARG+	HN	3	4337000
	HA	26	VAL	HN	5.4	385900
	HB2	23	ARG+	HN	4.4	431800
	HB3	24	GLU-	HN	4.9	682500
	HD21	25	ASP-	HB2	5.7	491500
	HD22	25	ASP-	HN	7	34720
	HD22	25	ASP-	HB2	5.5	627100
	HD22	25	ASP-	HB3	5.7	493500
23 ARG+						
	HN	23	ARG+	HA	4.7	275600
	HN	23	ARG+	HB2	4.6	352500
	HN	23	ARG+	HB3	4.4	426200
	HN	23	ARG+	QG	6.1	122850.0*2
	HN	23	ARG+	HD2	5	138100
	HN	23	ARG+	HD3	5.2	114600
	HN	24	GLU-	HN	3.8	1092000
	HA	24	GLU-	HN	5.2	158300
	HB3	24	GLU-	HN	3.9	909800
	HB3	25	ASP-	HN	7	84170
	HB3	26	VAL	HN	5.6	305400
	QG	24	GLU-	HN	8	77200.0*2
	QG	25	ASP-	HN	8	97600.0*2
	QG	27	ASP-	HN	8	179050.0*2
	QG	28	TYR	HN	8	11425.0*2
24 GLU-						
	HN	24	GLU-	HA	4	745300
	HN	24	GLU-	QB	4.5	845000.0*2
	HN	24	GLU-	QG	5.4	319600.0*2
	HN	25	ASP-	HN	3.8	1014000
	HN	25	ASP-	HA	5.4	131500
	HN	26	VAL	HN	6.2	175000
	HA	25	ASP-	HN	4.8	248200
	QB	25	ASP-	HN	5.5	392900.0*2
	QG	25	ASP-	HN	8	165900.0*2
25 ASP-						
	HN	25	ASP-	HA	4	834900
	HN	25	ASP-	HB2	3.5	1885000
	HN	25	ASP-	HB3	3.5	1815000
	HN	26	VAL	HN	3.8	1086000
	HN	27	ASP-	HN	5.4	388000
	HN	28	TYR	HB2	6.9	91040
	HA	28	TYR	HN	5	643300
	HA	29	ALA	HN	5.2	513500
	HB3	27	ASP-	HN	4.6	1044000
26 VAL						
	HN	26	VAL	HA	4.3	519500
	HN	26	VAL	HB	3.6	1422000
	HN	26	VAL	QG1	3.4	2157000
	HN	26	VAL	QG2	4.3	542000
	HN	27	ASP-	HN	3.6	1443000
	HN	27	ASP-	HA	5.4	130300
	HN	28	TYR	HA	6.5	132500
	HA	28	TYR	HN	4.9	734100
	HA	29	ALA	HN	6.1	199400
	HB	27	ASP-	HN	3.8	979000
27 ASP-						
	HN	27	ASP-	HA	4.1	700100
	HN	28	TYR	HN	3.3	2629000
	HA	30	ILE	HN	6.5	132700
	HB2	28	TYR	HN	3.7	1254000
	HB3	49	ASN	HD21	5.1	937200
	HB3	49	ASN	HD22	5.2	844600
28 TYR						
	HN	28	TYR	HA	3.6	1368000
	HN	28	TYR	HB2	3.3	2647000
	HN	28	TYR	CG	9	11250.0*2
	HN	29	ALA	HN	3.3	2625000
	HN	29	ALA	QB	5.4	101900
	HN	32	LYS+	HN	6.1	198800
	HN	108	LEU	HB3	7	171700
	HB3	29	ALA	HN	3.9	954200
	CG	29	ALA	HN	9	54650.0*2
29 ALA						
	HN	29	ALA	HA	3.7	1209000
	HN	29	ALA	QB	3.2	2562000
	HN	30	ILE	HB	5.9	73470
	HN	31	ARG+	HN	4.6	1100000
	HN	32	LYS+	HN	5.2	506400
	HN	32	LYS+	HG2	5.6	568800
	HN	108	LEU	HG	6.1	352500
	HN	109	PHE	HA	5.7	130800
	HA	30	ILE	HN	4.8	253700
30 ILE						
	HN	30	ILE	HA	4	780800
	HN	30	ILE	HB	3.5	1884000
	HN	30	ILE	QG2	4.1	734100
	HN	30	ILE	QD1	5.2	174400
	HN	32	LYS+	HN	5.1	545700
	HN	32	LYS+	QB	6.5	369000.0*2
	HN	33	ALA	QB	5.3	295800
	HN	34	PHE	QB	8	13865.0*2
	HA	31	ARG+	HN	4.6	323100
	HA	33	ALA	HN	5.6	309000
	QG2	34	PHE	HN	6.8	181400
31 ARG+						
	HN	31	ARG+	HA	3.7	1237000
	HN	31	ARG+	HB2	3.2	3023000
	HN	31	ARG+	HB3	3.1	3534000
	HN	31	ARG+	HG3	3.8	710600
	HN	31	ARG+	QD	6.3	99150.0*2
	HN	32	LYS+	HN	3.7	1169000
	HN	32	LYS+	HD3	6.3	309800
	HN	34	PHE	QB	8	34085.0*2
	HN	47	LYS+	QG	8	103600.0*2
	HB2	33	ALA	HN	7	34030
	HG3	35	GLN	HN	7	171800
32 LYS+						
	HN	32	LYS+	HA	3.4	2067000
	HN	32	LYS+	QB	4	1965500.0*2
	HN	32	LYS+	HG2	3.8	763700
	HN	32	LYS+	HG3	3.8	745200
	HN	33	ALA	HN	3.7	1233000
	HN	35	GLN	HN	4.8	790900
	QB	33	ALA	HN	5.1	634500.0*2
	QB	36	VAL	HN	8	4699.5*2
	QE	35	GLN	HE21	7.7	230150.0*2
	QE	35	GLN	HE22	6.9	416250.0*2
33 ALA						
	HN	33	ALA	HA	3.7	1280000
	HN	33	ALA	QB	3.2	2547000
	HN	34	PHE	HN	3.4	2046000
	HN	34	PHE	QB	8	8725.0*2
	HN	109	PHE	HD1	7	154800
	HN	109	PHE	HE1	7	155500
	HN	116	ILE	QG2	8	39300
	HN	116	ILE	QD1	8	16790
	HN	141	ILE	QD1	8	79630
	HA	34	PHE	HN	4.3	536500
	HA	35	GLN	HN	4.9	734500
	HA	36	VAL	HN	5.1	554100
	QB	34	PHE	HN	3.7	1060000
	QB	35	GLN	HN	5.3	295200
	QB	113	VAL	HN	4.7	769300

34 PHE						
	HN	34	PHE	HA	4.1	652100
	HN	34	PHE	QB	4.4	1036000.0*2
	HN	34	PHE	CG	6.6	227450.0*2
	HN	35	GLN	HN	3.6	1396000
	HN	35	GLN	QB	7.6	36105.0*2
	HN	116	ILE	HG13	7	50480
	HN	116	ILE	QD1	8	52460
	CG	35	GLN	HN	9	38840.0*2
35 GLN						
	HN	35	GLN	HA	3.8	1063000
	HN	35	GLN	QB	4.3	1304500.0*2
	HN	35	GLN	HG2	4.5	284500
	HN	35	GLN	HE22	4.9	161800
	HN	36	VAL	HN	3.8	1140000
	HN	37	TRP	HN	5.7	290200
	HN	38	SER	HN	5.3	450500
	QB	35	GLN	HE22	5	544000.0*2
	HE21	39	ASN	HA	6.7	229000
	HE22	39	ASN	HN	5.2	796100
	HE22	39	ASN	HA	6.7	226000
36 VAL						
	HN	36	VAL	HA	3.8	1112000
	HN	36	VAL	HB	3.2	3023000
	HN	36	VAL	QG1	3.4	2159000
	HN	36	VAL	QG2	4.4	459900
	HN	37	TRP	HN	3.6	1359000
	HN	37	TRP	HB2	5.5	115600
	HN	38	SER	HN	6	204100
	HN	38	SER	HA	6.7	111100
	HN	116	ILE	QG2	6.3	246500
	HA	37	TRP	HN	4.2	547000
	HA	39	ASN	HN	6	217900
	HA	39	ASN	HD21	7	128000
	HA	39	ASN	HD22	7	112900
	HB	37	TRP	HN	3.7	1160000
	QG1	37	TRP	HN	5.3	490000
	QG1	131	VAL	HN	8	57850
	QG2	37	TRP	HN	5.4	457100
37 TRP						
	HN	37	TRP	HA	4.1	685200
	HN	37	TRP	HB2	3.4	2175000
	HN	37	TRP	HE1	7	14180
	HN	38	SER	HN	3.5	1623000
	HN	38	SER	HA	4.9	231000
	HN	40	VAL	HN	7	49340
	HN	116	ILE	QG2	6.4	230100
	HB2	38	SER	HN	4.1	652300
	HB3	41	THR	HN	7	83480
	HE1	113	VAL	HA	5.4	668600
	HE1	113	VAL	QG1	4.8	706200
	HE1	113	VAL	QG2	5.6	402900
	HE1	114	HIS	HN	4.9	1112000
	HE1	116	ILE	HN	7	80960
	HE1	116	ILE	HB	5.5	621900
	HE1	117	GLY	HN	5.7	529900
	HE1	117	GLY	HA1	7	8699
	HZ3	154	ILE	HN	7	61840
38 SER						
	HN	38	SER	HA	3.4	1997000
	HN	39	ASN	HN	3.8	1111000
	HN	39	ASN	HA	5.3	135700
	HN	40	VAL	HN	7	28950
	HN	41	THR	HN	7	25790
	HN	45	PHE	HN	6.5	61150
	HA	39	ASN	HN	3.6	1553000
	HA	45	PHE	HN	4.2	868100
	HB2	40	VAL	HN	5.5	373700
	HB2	41	THR	HN	5.8	250000
	HB3	44	LYS+	HN	6.5	266000
39 ASN						
	HN	39	ASN	HA	3	4700000
	HN	39	ASN	QB	4.2	1428000.0*2
	HN	39	ASN	HD21	6.1	43020
	HN	39	ASN	HD22	5.1	133600
	HN	40	VAL	HN	3.7	1155000
	HN	40	VAL	QG2	5.3	507500
	HN	41	THR	HN	5.3	455900
	HN	43	LEU	HN	7	57640
	HA	39	ASN	HD21	3.2	2127000
	HA	39	ASN	HD22	3.6	1091000
	QB	39	ASN	HD21	5.7	217550.0*2
	QB	39	ASN	HD22	6.1	129600.0*2
	QB	40	VAL	HN	5.7	274800.0*2
40 VAL						
	HN	40	VAL	HA	3.7	1269000
	HN	40	VAL	HB	4.6	319900
	HN	40	VAL	QG1	4.4	488000
	HN	40	VAL	QG2	3.5	1960000
	HN	41	THR	HN	3.2	3053000
	HN	41	THR	QG2	5.2	537400
	HA	41	THR	HN	3.8	996300
	HB	41	THR	HN	5.8	82970
	QG2	41	THR	HN	4.7	778800
41 THR						
	HN	41	THR	HA	4.2	611300
	HN	41	THR	HB	5.2	161600
	HN	41	THR	QG2	4	823900
	HN	42	PRO	HA	5.4	131100
	HN	43	LEU	HN	4.5	1257000
42 PRO						
	HA	43	LEU	HN	3.4	2041000
	HD2	43	LEU	HN	7	100900
43 LEU						
	HN	43	LEU	HA	3.1	3531000
	HN	43	LEU	HB2	4.1	669100
	HN	43	LEU	HB3	4.4	434100
	HN	43	LEU	QD1	4.3	524000
	HN	43	LEU	QD2	3.6	1545000
	HN	44	LYS+	HN	4.7	300100
	HA	44	LYS+	HN	3.7	1289000
	QD1	44	LYS+	HN	4.8	725100
	QD2	44	LYS+	HN	8	21290
44 LYS+						
	HN	44	LYS+	HA	4.3	478800
	HN	44	LYS+	QG	4.8	717000.0*2
	HN	44	LYS+	QE	5.2	395250.0*2
45 PHE						
	HN	45	PHE	HA	4.4	442000
	HN	45	PHE	HB2	4.1	715100
	HN	45	PHE	HB3	4.4	464700
	HN	45	PHE	CG	6.3	361300.0*2
	HA	46	SER	HN	3.4	2144000
	HB2	46	SER	HN	5.6	102300
	HB3	46	SER	HN	5.1	179700
	CG	46	SER	HN	9	100650.0*2
46 SER						
	HN	46	SER	HA	4.5	355900
	HN	46	SER	HB2	4.5	375900
	HN	46	SER	HB3	4.5	378800
	HN	47	LYS+	HN	4.6	337500
	HN	47	LYS+	HA	4.9	220700
	HN	47	LYS+	HB3	5.1	173800
	HA	47	LYS+	HN	3.2	3054000
47 LYS+						
	HN	47	LYS+	HA	3.9	842100
	HN	47	LYS+	HB2	3.7	1324000
	HN	47	LYS+	HB3	3.7	1310000
	HN	48	ILE	HN	5.4	132800
	HA	48	ILE	HN	3.4	1957000
	QG	57	VAL	HN	6.9	423000.0*2
48 ILE						
	HN	48	ILE	HA	3.6	1473000
	HN	48	ILE	HB	4.3	495600
	HN	48	ILE	HG13	3.1	2748000
	HN	49	ASN	HA	4.5	382300
	HG13	50	THR	HN	7	83440
	QD1	51	GLY	HN	5.5	439700
49 ASN						
	HN	49	ASN	HA	3	4713000
	HN	50	THR	HA	5.1	180700
	HA	49	ASN	HD21	5.6	68410
	HA	49	ASN	HD22	5.8	60150
	HA	50	THR	HN	3.6	1456000

	HA	51	GLY	HN	6.3	151200
	QB	50	THR	HN	7.2	52750.0*2
50 THR						
	HN	50	THR	HA	3.3	2605000
	HA	51	GLY	HN	3.1	3322000
	QG2	51	GLY	HN	6.3	252600
51 GLY						
	HN	51	GLY	HA1	3.2	3290000
	HN	51	GLY	HA2	4.1	665900
	HN	53	ALA	HN	6.3	159200
52 MET						
	HN	52	MET	HA	4.3	478100
	HN	52	MET	QB	5.4	245050.0*2
	HN	52	MET	QG	5.5	270550.0*2
	HN	53	ALA	HN	4.6	351700
	QB	53	ALA	HN	6.1	187000.0*2
	QG	53	ALA	HN	8	61000.0*2
53 ALA						
	HN	53	ALA	HA	3.3	2530000
	HN	53	ALA	QB	3.6	1171000
	HN	54	ASP-	HA	5.1	176900
	QB	54	ASP-	HN	3.5	1366000
54 ASP-						
	HN	54	ASP-	HA	3.4	1907000
	HN	54	ASP-	HB2	3.8	1129000
	HN	54	ASP-	HB3	5.2	165500
	HN	55	ILE	HN	4	817800
	HN	55	ILE	HG12	5.4	652400
	HN	56	LEU	HN	6.5	131900
	HA	55	ILE	HN	4.9	225300
	HB2	55	ILE	HN	4.3	510500
	HB2	56	LEU	HN	6.3	159700
	HB3	55	ILE	HN	4.7	278600
55 ILE						
	HN	55	ILE	HA	4.8	264000
	HN	55	ILE	HB	4.2	591300
	HN	55	ILE	QG2	4.2	604100
	HN	55	ILE	HG12	4.4	288300
	HN	56	LEU	HB3	5.4	126900
	HA	56	LEU	HN	3.5	1874000
	HA	90	ASP-	HN	4.8	368700
	HA	91	ALA	HN	7	36970
	QG2	89	GLY	HN	6.9	174700
	QG2	90	ASP-	HN	7.8	101700
	QD1	90	ASP-	HN	8	57190
56 LEU						
	HN	56	LEU	HA	4.6	316900
	HN	56	LEU	HB2	4	785700
	HN	56	LEU	HB3	3.9	965800
	HN	56	LEU	QD2	4.4	461600
	HN	57	VAL	HN	5	193100
	HN	90	ASP-	HN	5.6	155500
	HN	90	ASP-	HA	4.1	1012000
	HN	91	ALA	HN	6	98680
	HN	91	ALA	QB	6.7	197200
	HA	57	VAL	HN	3.5	1751000
	HB2	57	VAL	HN	4.2	596700
	HB2	91	ALA	HN	7	79460
	HB3	57	VAL	HN	4.5	397200
	HB3	91	ALA	HN	6.9	188800
57 VAL						
	HN	57	VAL	HA	3.4	2190000
	HN	57	VAL	HB	3.8	1025000
	HN	57	VAL	QG1	4.3	545700
	HN	57	VAL	QG2	3.5	2005000
	HN	90	ASP-	QB	8	34655.0*2
	HA	58	VAL	HN	3.3	2296000
	HA	91	ALA	HN	4.9	349700
	QG1	58	VAL	HN	5	600000
	QG2	58	VAL	HN	5	603700
	QG2	59	PHE	HN	4.8	730500
58 VAL						
	HN	58	VAL	HA	4.4	421000
	HN	58	VAL	HB	4	821800
	HN	58	VAL	QG1	4.5	420900
	HN	59	PHE	HN	4.8	245700
	HN	59	PHE	CG	9	151750.0*2

	HN	92	HIS	HA	4.7	458300
	HN	93	PHE	HN	4.3	766600
	HN	93	PHE	CG	9	106900.0*2
	HA	59	PHE	HN	3.3	2708000
	HB	59	PHE	HN	5.6	95800
	QG1	59	PHE	HN	4.5	923400
	QG1	60	ALA	HN	7.7	110700
59 PHE						
	HN	59	PHE	HA	5.4	132500
	HN	59	PHE	HB2	3.8	1144000
	HN	59	PHE	HB3	4	723000
	HN	59	PHE	CG	6.9	152300.0*2
	HN	60	ALA	HN	4.5	403300
	HN	60	ALA	HA	5.1	187500
	HN	60	ALA	QB	5.7	71700
	HN	93	PHE	HB3	7	46730
	HA	60	ALA	HN	3.7	1318000
	HA	93	PHE	HN	4.8	384400
	HB3	60	ALA	HN	5.7	93990
	CG	60	ALA	HN	9	15985.0*2
60 ALA						
	HN	60	ALA	HA	4.7	295100
	HN	60	ALA	QB	4.1	507900
	HN	61	ARG+	HN	4.5	358800
	HN	62	GLY	HN	6.4	148600
	HN	93	PHE	HB2	7	107900
	HN	93	PHE	HB3	5.4	639000
	HA	61	ARG+	HN	3.4	2088000
	QB	61	ARG+	HN	3.5	1446000
61 ARG+						
	HN	61	ARG+	HA	4.6	345200
	HN	61	ARG+	HB2	4.2	611300
	HN	61	ARG+	HB3	3.9	918900
	HN	61	ARG+	QG	5	512500.0*2
	HN	61	ARG+	QD	6.1	127200.0*2
	HN	62	GLY	HN	4.3	507800
	HA	62	GLY	HN	4.7	299100
	HB2	62	GLY	HN	5	200000
	HB3	62	GLY	HN	5	191300
62 GLY						
	HN	62	GLY	HA1	4	763900
	HN	62	GLY	HA2	4	738500
	HN	64	HIS	HB3	6.5	130600
	HN	71	ASP-	HA	5.8	122400
	HN	96	ASP-	HA	6.4	70640
	HA1	71	ASP-	HN	4.6	530400
	HA1	72	GLY	HN	5.9	110400
	HA2	63	ALA	HN	7	14660
	HA2	71	ASP-	HN	6.2	84290
	HA2	72	GLY	HN	6.1	90020
67 ASP-						
	HN	67	ASP-	HA	4.1	637400
	HN	67	ASP-	QB	4.9	505000.0*2
	HN	68	HIS	HN	5.4	125900
	HN	68	HIS	HA	5	204000
	HN	68	HIS	HE1	7	59520
	HN	69	ALA	HN	6.1	193600
	HA	68	HIS	HN	4	810400
68 HIS						
	HN	68	HIS	HA	3.6	1469000
	HN	68	HIS	HB2	4.3	482300
	HN	68	HIS	HB3	4	722900
	HN	68	HIS	HD2	4.7	205100
	HN	68	HIS	HE1	6.1	42240
	HN	69	ALA	HN	4.2	613800
	HN	70	PHE	HN	6.7	104400
69 ALA						
	HN	69	ALA	HA	3.9	891600
	HN	69	ALA	QB	3.4	1651000
	HN	70	PHE	HA	5.7	87020
	HA	70	PHE	HN	3.6	1533000
	QB	70	PHE	HN	3.8	923300
70 PHE						
	HN	70	PHE	HA	3.7	1308000
	HN	70	PHE	HB2	4.1	671200
	HN	70	PHE	HB3	4.1	667700
	HN	70	PHE	CG	7.8	59400.0*2

	HN	71	ASP-	HA	5.6	101400
	CG	71	ASP-	HN	9	16605.0*2
	CZ	71	ASP-	HN	9	89400.0*2
71 ASP-						
	HN	71	ASP-	HA	3.5	1677000
	HN	71	ASP-	HB2	4.1	709100
	HN	71	ASP-	HB3	4.5	376200
	HN	72	GLY	HN	4.3	480500
	HA	72	GLY	HN	3.3	2464000
	HA	73	LYS+	HN	7	31950
	HB2	72	GLY	HN	5.2	167200
	HB3	72	GLY	HN	5.1	184500
	HB3	74	GLY	HN	7	13240
72 GLY						
	HN	72	GLY	HA1	3.8	1029000
	HN	72	GLY	HA2	3.9	875200
	HA1	73	LYS+	HN	4	818500
	HA2	73	LYS+	HN	4	743100
73 LYS+						
	HN	73	LYS+	HA	3.4	2064000
	HN	73	LYS+	QB	4.7	712500.0*2
	HN	74	GLY	HA1	5.5	108900
	HN	98	PHE	QB	8	158600.0*2
	QB	74	GLY	HN	5.8	260600.0*2
	HG2	74	GLY	HN	5.7	525800
74 GLY						
	HN	74	GLY	HA1	3.9	914500
	HN	74	GLY	HA2	3.2	2908000
	HN	77	LEU	QD1	8	79610
	HA1	75	GLY	HN	3.7	1268000
	HA2	75	GLY	HN	3.7	1299000
75 GLY						
	HN	75	GLY	HA1	3.4	2067000
	HN	75	GLY	HA2	3.3	2374000
	HN	76	ILE	HN	5	205400
	HN	76	ILE	HA	5.8	78780
	HA1	76	ILE	HN	4.1	633400
	HA2	76	ILE	HN	4.4	446800
76 ILE						
	HN	76	ILE	HA	3.9	950100
	HN	76	ILE	HB	4	803000
	HN	76	ILE	QG2	4.9	266700
	HN	76	ILE	HG12	4.2	394900
	HN	76	ILE	HG13	4.8	177000
	HN	76	ILE	QD1	5.8	90060
	HN	77	LEU	HN	5.6	99290
	HN	77	LEU	QB	6.8	80450.0*2
	HA	77	LEU	HN	3.5	1738000
	HA	78	ALA	HN	5.5	356700
	HB	77	LEU	HN	5.2	153600
	HB	78	ALA	HN	7	60270
	QG2	77	LEU	HN	4.3	1145000
	QG2	78	ALA	HN	3.8	1799000
	QD1	77	LEU	HN	6.3	240000
77 LEU						
	HN	77	LEU	HA	4.6	342300
	HN	77	LEU	QB	4.9	535000.0*2
	HN	77	LEU	HG	4.4	324000
	HN	77	LEU	QD1	4.7	317500
	HN	77	LEU	QD2	5	238900
	HN	78	ALA	HN	3.6	1452000
	HN	78	ALA	QB	5.6	79700
	HN	79	HIS	HN	6.8	100500
	HA	78	ALA	HN	4.3	502600
	QB	94	ASP-	HN	7.1	364600.0*2
	HG	78	ALA	HN	5.8	477400
	QD1	78	ALA	HN	7.7	109800
	QD2	78	ALA	HN	7.9	96840
	QD2	99	TRP	HE1	8	93570
	QD2	136	TYR	HN	8	60820
78 ALA						
	HN	78	ALA	HA	3.9	853600
	HN	78	ALA	QB	3.5	1415000
	HN	79	HIS	HN	6.8	32210
	HN	79	HIS	HE1	7	86700
	HN	111	THR	QG2	5.4	459000
	QB	79	HIS	HN	3.7	1082000

79 HIS						
	HN	79	HIS	HA	3.5	1619000
	HN	79	HIS	HB2	5.3	143000
	HN	79	HIS	HB3	5.1	176200
	HN	79	HIS	HD2	3.9	688500
	HN	80	ALA	HN	6.2	52140
	HN	93	PHE	HA	5.3	204600
	HN	93	PHE	CG	9	115400.0*2
	HN	94	ASP-	HA	6.4	70200
	HN	115	GLU-	QG	8	71700.0*2
	HA	80	ALA	HN	3.2	3202000
	HA	92	HIS	HN	5	286300
	HD2	92	HIS	HN	7	123000
	HD2	93	PHE	HN	7	99720
80 ALA						
	HN	80	ALA	HA	3.5	1645000
	HN	80	ALA	QB	3.6	1154000
	HN	81	PHE	HN	4.8	262400
	HN	82	GLY	HN	6.9	92380
	HN	118	HIS	HB2	5.5	635100
	QB	118	HIS	HN	5.2	520600
	QB	119	SER	HN	4.2	1241000
81 PHE						
	HN	90	ASP-	HN	4.5	539500
	CG	90	ASP-	HN	9	36400.0*2
82 GLY						
	HN	82	GLY	HA1	3.9	899000
	HN	82	GLY	HA2	4.3	493900
	HN	83	PRO	HD2	6.5	269300
	HN	89	GLY	HN	4.2	899600
	HA1	121	GLY	HN	5.2	244800
	HA1	122	LEU	HN	5	301500
83 PRO						
	HB2	84	GLY	HN	5.5	109300
	HB3	84	GLY	HN	5.1	188100
	HG3	84	GLY	HN	7	138100
	HD2	84	GLY	HN	5.7	494600
	HD3	84	GLY	HN	5.2	844000
84 GLY						
	HN	84	GLY	HA1	4.4	419500
	HN	84	GLY	HA2	4.3	534500
	HN	85	SER	HN	4.5	366900
	HN	85	SER	HA	5.2	166100
	HA1	85	SER	HN	7	12560
85 SER						
	HN	85	SER	HA	4.2	543700
86 GLY						
	HN	88	GLY	HA1	7	53900
87 ILE						
	HN	87	ILE	HB	6.7	33120
	HN	87	ILE	QG2	5.5	122200
	HN	88	GLY	HN	4.8	272800
	HN	88	GLY	HA1	5.4	127700
	HA	88	GLY	HN	4.4	408200
	HB	88	GLY	HN	6.4	43260
	HB	90	ASP-	HN	7	38500
	QG2	88	GLY	HN	5	647200
	QG2	90	ASP-	HN	8	54970
88 GLY						
	HN	88	GLY	HA1	3.8	1145000
	HN	88	GLY	HA2	3.6	1555000
	HN	90	ASP-	HN	5.5	343200
	HA1	89	GLY	HN	3.4	2126000
	HA1	90	ASP-	HN	6.6	121400
	HA2	89	GLY	HN	3.6	1479000
89 GLY						
	HN	89	GLY	HA1	3.7	1310000
	HN	89	GLY	HA2	3.5	1696000
	HN	90	ASP-	HN	4.6	348200
	HN	90	ASP-	HA	5.5	114800
90 ASP-						
	HN	90	ASP-	HA	4	765800
	HN	90	ASP-	QB	4.3	1194000.0*2
	HN	91	ALA	HN	4.7	281900
	HA	91	ALA	HN	3.6	1493000
	QB	91	ALA	HN	5.6	336800.0*2
91 ALA						

	HN	91	ALA	HA	3.7	1334000
	HN	91	ALA	QB	3.4	1631000
	HN	92	HIS	HN	5.4	127900
	HN	92	HIS	HD2	7	119300
	HA	92	HIS	HN	3.7	1235000
	QB	92	HIS	HN	4.6	259300
	QB	93	PHE	HN	8	14600
92 HIS						
	HN	92	HIS	HA	6.6	38010
	HN	92	HIS	HB2	5.7	86590
	HN	92	HIS	HD2	6.3	33790
	HN	93	PHE	HN	4.6	319700
	HN	93	PHE	CG	9	34170.0*2
	HN	94	ASP-	HN	7	54590
	HA	93	PHE	HN	3.9	894900
	HB3	93	PHE	HN	5.8	78920
	HD2	93	PHE	HN	7	136800
93 PHE						
	HN	93	PHE	HA	6.8	30440
	HN	93	PHE	HB2	5.2	163500
	HN	93	PHE	HB3	4.5	369600
	HN	93	PHE	CG	6.5	276150.0*2
	HN	94	ASP-	HN	4.6	337500
	HA	94	ASP-	HN	3.5	1722000
	HB2	94	ASP-	HN	4	735400
	HB3	94	ASP-	HN	4.1	650000
	CG	115	GLU-	HN	9	35525.0*2
94 ASP-						
	HN	94	ASP-	HA	3.5	1871000
	HN	95	GLU-	QB	7.5	39480.0*2
	HA	95	GLU-	HN	4	774700
	HA	99	TRP	HE1	7	55850
95 GLU-						
	HN	95	GLU-	HA	3.6	1556000
	HN	95	GLU-	QB	4.8	548500.0*2
	HN	96	ASP-	HN	3	4460000
96 ASP-						
	HA	97	GLU-	HN	3.6	1432000
97 GLU-						
	HN	97	GLU-	HA	3.9	855100
	HN	97	GLU-	HB2	4.7	294400
	HN	97	GLU-	HB3	4.5	358400
	HN	98	PHE	HN	4.6	339800
	HN	98	PHE	HA	7	20960
	HN	99	TRP	HN	5.8	271100
	HB2	98	PHE	HN	5.2	149300
	HB3	98	PHE	HN	4.6	338200
98 PHE						
	HN	98	PHE	HA	3.7	1272000
	HN	98	PHE	QB	4.7	657000.0*2
	HN	99	TRP	HN	4.1	699200
	HN	99	TRP	HA	4.9	226300
	HN	99	TRP	HE1	7	59780
	HN	100	THR	HN	6.7	111000
	HA	99	TRP	HN	4.9	229500
	QB	99	TRP	HN	5.2	611500.0*2
99 TRP						
	HN	99	TRP	HA	4	797200
	HN	99	TRP	HB2	4.6	328900
	HN	99	TRP	HB3	4.2	551400
	HN	99	TRP	HE1	5.3	105300
	HN	100	THR	HN	5.9	76700
	HB2	100	THR	HN	4.3	532700
	HB3	100	THR	HN	3.8	1075000
	HE3	108	LEU	HN	7	143800
	HE1	108	LEU	QD1	5	601100
	HZ3	107	ASN	HN	6	390900
100 THR						
	HN	100	THR	HA	3.3	2516000
	HN	100	THR	HB	3.9	934000
	HN	100	THR	QG2	3.6	1520000
	HN	101	THR	HN	4.4	421100
	HN	102	HIS	HE1	7	85270
	HA	101	THR	HN	3.1	3698000
	HA	102	HIS	HN	4.1	2003000
101 THR						
	HN	101	THR	HA	3.7	1243000
	HN	101	THR	HB	4	810800
	HN	101	THR	QG2	3.6	1537000
	HN	102	HIS	HN	4.4	410900
	HN	102	HIS	HA	5.4	130500
	HN	102	HIS	HB2	5	203800
	HA	102	HIS	HN	3.6	1495000
	QG2	102	HIS	HN	4.6	845600
102 HIS						
	HN	102	HIS	HA	3.6	1403000
	HN	102	HIS	HB2	4.3	531300
	HN	102	HIS	HB3	4.1	641600
	HN	102	HIS	HD2	5.8	57280
	HN	102	HIS	HE1	5.1	124500
	HA	103	SER	HN	3.9	945600
103 SER						
	HN	103	SER	HB2	4.8	254200
	HN	104	GLY	HN	5.5	107900
	HN	104	GLY	HA1	5.2	163000
	HN	104	GLY	HA2	4.9	227800
104 GLY						
	HN	106	THR	HN	6.8	100400
	HA1	105	GLY	HN	3.4	2015000
	HA1	106	THR	HN	6.1	198400
	HA2	105	GLY	HN	3.4	2089000
	HA2	106	THR	HN	6.1	199300
105 GLY						
	HN	105	GLY	QA	3.7	1347500.0*2
	HN	106	THR	HN	5.3	139400
	QA	106	THR	HN	4.5	1769500.0*2
106 THR						
	HN	106	THR	HB	4.2	563100
	HN	106	THR	QG2	4.9	250500
	HN	107	ASN	HN	5.3	147400
	HN	107	ASN	HA	4.5	358300
	HN	108	LEU	HN	6.1	189400
	HN	136	TYR	HH	7	58740
	HA	107	ASN	HN	3.6	1524000
	QG2	107	ASN	HN	5.7	368500
	QG2	111	THR	HN	7.2	142300
107 ASN						
	HN	107	ASN	HA	3.7	1172000
	HN	107	ASN	HD21	5.6	71520
	HN	108	LEU	HA	5.8	81290
	HN	110	LEU	HA	7	71000
	HN	110	LEU	HB2	7	2067
	HN	110	LEU	HG	7	16770
	HA	107	ASN	HD21	4.4	324700
	HA	107	ASN	HD22	4.6	229800
	HA	108	LEU	HN	3.6	1438000
	HA	109	PHE	HN	5.6	330200
	HA	110	LEU	HN	5.4	408700
	HA	111	THR	HN	6	214700
	QB	107	ASN	HD21	5.8	187250.0*2
	QB	107	ASN	HD22	6	137250.0*2
	QB	108	LEU	HN	6.8	79600.0*2
	HD21	108	LEU	HG	7	4300
	HD22	108	LEU	HN	7	55620
	HD22	108	LEU	HG	7	142600
	HD22	141	ILE	QD1	8	39640
108 LEU						
	HN	108	LEU	HA	4.6	342900
	HN	108	LEU	HB2	4.2	590700
	HN	108	LEU	HB3	4.3	532400
	HN	108	LEU	HG	5.3	104200
	HN	108	LEU	QD1	6.4	52360
	HN	108	LEU	QD2	6.5	45300
	HN	109	PHE	HN	4.4	422000
	HB2	109	PHE	HN	4.1	628900
	HB2	110	LEU	HN	6.2	174200
	HB3	109	PHE	HN	4	759100
	HB3	110	LEU	HN	5.4	383500
	HG	109	PHE	HN	6.4	282200
	QD1	109	PHE	HN	7.8	103500
109 PHE						
	HN	109	PHE	HA	4.1	677600
	HN	109	PHE	HB2	3.7	1239000
	HN	109	PHE	HB3	3.8	1075000

	HN	109	PHE	CG	7.3	100450.0*2
	HN	110	LEU	HN	3	4207000
	HN	111	THR	HB	6.7	111000
	HA	110	LEU	HN	4	798100
	HA	113	VAL	HN	4.8	844600
	HB2	110	LEU	HN	4.1	632200
	HB3	110	LEU	HN	3.9	933300
110 LEU						
	HN	110	LEU	HA	3.6	1444000
	HN	110	LEU	HB2	3.6	1415000
	HN	110	LEU	HB3	3.7	1227000
	HN	110	LEU	HG	4.4	322200
	HN	110	LEU	QD1	6.6	42470
	HN	111	THR	HN	3.9	840400
	HN	111	THR	HB	4.9	225900
	HN	112	ALA	HN	5.1	583700
	HN	113	VAL	QG2	8	20650
	HN	114	HIS	HN	7	76580
	HA	111	THR	HN	4.7	289100
	HB2	111	THR	HN	4	787700
	HB3	111	THR	HN	4	731900
	HG	113	VAL	HN	7	160300
111 THR						
	HN	111	THR	HA	3.4	1938000
	HN	111	THR	HB	3.2	3225000
	HN	111	THR	QG2	4.3	543900
	HN	112	ALA	HN	3.8	1092000
	HN	112	ALA	QB	5.3	111300
	HN	113	VAL	HN	7	47960
	HN	114	HIS	HN	5.3	441700
	HB	112	ALA	HN	3.9	941000
	HB	113	VAL	HN	5.7	300600
	QG2	112	ALA	HN	6.7	194100
112 ALA						
	HN	112	ALA	HA	4.1	655700
	HN	112	ALA	QB	3.3	1899000
	HN	113	VAL	HN	4.1	663300
	HN	113	VAL	HB	6.2	52550
	HN	114	HIS	HN	6.9	92450
	HN	115	GLU-	HN	7	58160
	HN	116	ILE	HG13	7	39030
	HN	116	ILE	QD1	8	19550
	HA	113	VAL	HN	4.6	341700
	QB	115	GLU-	HN	5.8	171500
113 VAL						
	HN	113	VAL	HA	3.8	1142000
	HN	113	VAL	HB	3.6	1584000
	HN	113	VAL	QG1	3.7	1515000
	HN	113	VAL	QG2	4.4	464000
	HN	114	HIS	HN	3.9	932100
	HN	115	GLU-	HN	5.7	300500
	HN	116	ILE	HN	5.1	576900
	HA	116	ILE	HN	5.6	315900
	HB	114	HIS	HN	3.6	1387000
	QG1	114	HIS	HN	5.3	512400
	QG2	114	HIS	HN	6.1	272300
114 HIS						
	HN	114	HIS	HA	3.9	905600
	HN	114	HIS	HB2	3.4	1985000
	HN	114	HIS	HB3	3.6	1559000
	HN	115	GLU-	HN	3.9	840900
	HN	131	VAL	QG2	4.8	738900
	HA	115	GLU-	HN	5	199700
	HA	117	GLY	HN	5.9	227900
	HA	118	HIS	HN	6.4	147200
	HB2	115	GLU-	HN	4.1	718800
	HB3	115	GLU-	HN	4.3	513400
	HD2	115	GLU-	HN	7	37140
115 GLU-						
	HN	115	GLU-	HA	3.5	1651000
	HN	115	GLU-	QB	4.7	654000.0*2
	HN	115	GLU-	QG	5.2	402650.0*2
	HN	116	ILE	QG2	8	82410
	HA	116	ILE	HN	4.4	411800
	QB	117	GLY	HN	8	9890.0*2
116 ILE						
	HN	116	ILE	HA	4.8	254700

	HN	116	ILE	HB	3.7	1271000
	HN	116	ILE	QG2	4.2	650700
	HN	116	ILE	HG12	4.3	371000
	HN	116	ILE	HG13	4.3	373000
	HN	116	ILE	QD1	6.1	69820
	HN	117	GLY	HN	3.8	1002000
	HN	118	HIS	HN	7	47130
	HA	117	GLY	HN	5.1	173500
	HB	117	GLY	HN	4.2	600900
	HB	118	HIS	HN	5.7	285900
	QG2	117	GLY	HN	6	301300
	QG2	119	SER	HN	7	157200
	HG12	117	GLY	HN	6.7	228000
117 GLY						
	HN	117	GLY	HA1	3.6	1594000
	HN	117	GLY	HA2	3.9	959000
	HN	118	HIS	HN	3.8	980900
	HA1	118	HIS	HN	3.6	1418000
	HA1	119	SER	HN	5	661100
	HA2	118	HIS	HN	3.9	894100
118 HIS						
	HN	118	HIS	HA	4.2	545600
	HN	118	HIS	HB2	3.7	1159000
	HN	118	HIS	HB3	3.9	888300
	HN	118	HIS	HD2	4.5	285800
	HN	118	HIS	HE1	6.5	29540
	HN	119	SER	HN	3.8	1061000
	HN	119	SER	QB	6.2	167000.0*2
	HN	120	LEU	QD1	7.5	120800
	HN	132	MET	QE	5.7	355200
	HB2	119	SER	HN	4.2	601500
	HB3	119	SER	HN	4.2	599400
119 SER						
	HN	119	SER	HA	3.8	1141000
	HN	119	SER	QB	5.2	315350.0*2
	HN	120	LEU	HN	4.1	700100
	HN	120	LEU	QB	7.3	51550.0*2
	HN	121	GLY	HN	5.4	404600
	HN	122	LEU	HN	6.2	180100
	HA	120	LEU	HN	4.3	522200
120 LEU						
	HN	120	LEU	HA	3.9	899500
	HN	120	LEU	QB	4.7	653500.0*2
	HN	120	LEU	HG	3.7	826800
	HN	120	LEU	QD1	4	815000
	HN	120	LEU	QD2	4.8	280400
	HN	121	GLY	HN	3.3	2580000
	HA	121	GLY	HN	3.8	1132000
	HG	121	GLY	HN	6.4	288900
121 GLY						
	HN	121	GLY	HA1	3.6	1519000
	HN	121	GLY	HA2	3.6	1451000
	HN	122	LEU	HN	3.2	2994000
	HN	122	LEU	HA	4.9	231500
	HN	122	LEU	QB	7	65000.0*2
	HN	122	LEU	HG	6.4	284000
	HN	122	LEU	QD1	6.5	216900
	HA1	122	LEU	HN	3.9	890600
	HA2	122	LEU	HN	4	760500
122 LEU						
	HN	122	LEU	HA	3.7	1195000
	HN	122	LEU	QB	5.1	377800.0*2
	HN	122	LEU	HG	3.8	706400
	HN	122	LEU	QD1	4	843900
	QB	124	HIS	HN	8	10095.0*2
	QD2	124	HIS	HN	8	55760
123 GLY						
	HA1	124	HIS	HN	3.7	1225000
	HA2	124	HIS	HN	3.7	1217000
124 HIS						
	HN	124	HIS	HA	3.1	3611000
	HN	124	HIS	HB2	4.6	342900
	HN	124	HIS	HB3	4.8	258000
	HN	124	HIS	HD2	4.2	406200
	HN	124	HIS	HE1	5.4	92900
	HN	125	SER	HN	5.3	147200
125 SER						

	HN	125	SER	HA	4.1	632000
	HN	125	SER	HB2	4.5	356800
	HN	125	SER	HB3	4.1	637200
	HN	130	ALA	QB	8	39150
	HN	132	MET	HA	5	319200
	HN	132	MET	HB2	5.3	708400
	HN	132	MET	HB3	6.8	207200
	HN	133	PHE	HA	3.9	1470000
	HN	133	PHE	CG	9	21665.0*2
	HB3	132	MET	HN	6.9	190600
126 SER						
	HN	126	SER	HA	2.9	5813000
	HN	126	SER	HB2	4.7	277200
	HN	126	SER	HB3	4.6	311700
	HN	127	ASP-	HB2	7	3090
	HN	133	PHE	CZ	9	30430.0*2
	HA	127	ASP-	HN	3.5	1702000
	HB2	127	ASP-	HN	5.1	179200
	HB3	127	ASP-	HN	5.1	182800
127 ASP-						
	HN	127	ASP-	HA	3.3	2683000
	HN	127	ASP-	HB2	3.7	1204000
	HN	127	ASP-	HB3	4	759100
	HN	129	LYS+	HN	5.6	322200
	HN	129	LYS+	QB	7.8	100900.0*2
	HN	130	ALA	HN	5.9	237900
	HN	133	PHE	CG	9	39540.0*2
	HN	133	PHE	CZ	9	64950.0*2
	HA	129	LYS+	HN	4.9	677600
129 LYS+						
	HN	129	LYS+	HA	3.8	1017000
	HN	129	LYS+	QB	4.2	1511500.0*2
	HN	129	LYS+	HG2	3.6	1093000
	HN	129	LYS+	HG3	3.6	1095000
	HN	129	LYS+	QD	5.1	502500.0*2
	HN	129	LYS+	QE	6.4	87100.0*2
	HN	133	PHE	HB2	5.7	284300
	HA	130	ALA	HN	4.4	449400
	QB	149	ASP-	HN	8	127200.0*2
	HG2	130	ALA	HN	7	92340
	HG3	130	ALA	HN	7	85470
	QD	130	ALA	HN	8	164450.0*2
	QE	130	ALA	HN	8	181700.0*2
130 ALA						
	HN	130	ALA	HA	3.9	968500
	HN	130	ALA	QB	3.2	2353000
	HN	131	VAL	HB	6.8	30460
	HN	133	PHE	HB2	5.8	268300
	HA	131	VAL	HN	4.3	528600
	QB	131	VAL	HN	5.2	126600
	QB	132	MET	HN	4.4	927400
	QB	133	PHE	HN	3.9	1737000
	QB	147	SER	HN	5.2	552800
131 VAL						
	HN	131	VAL	HA	4.5	369500
	HN	131	VAL	HB	4.6	325200
	HN	131	VAL	QG2	4.9	267800
	HN	132	MET	HN	4.2	600300
	HN	147	SER	HN	6.8	46710
	QG1	146	LEU	HN	6.7	189900
	QG2	132	MET	HN	4.6	908700
132 MET						
	HN	132	MET	HA	3.9	851600
	HN	132	MET	HB2	3.6	1431000
	HN	132	MET	HB3	4.1	673600
	HN	132	MET	QG	5.1	447650.0*2
	HN	133	PHE	HN	4.1	652400
	HA	133	PHE	HN	3.7	1292000
133 PHE						
	HN	133	PHE	HA	5.3	136700
	HN	133	PHE	HB2	3.8	1039000
	HN	133	PHE	HB3	3.8	1044000
	HN	133	PHE	CG	7.8	58350.0*2
	HN	134	PRO	HA	5.8	83400
	HN	135	THR	HN	5.2	493200
	CG	135	THR	HN	8.4	288150.0*2
134 PRO						
	HA	135	THR	HN	3.5	1775000
135 THR						
	HN	135	THR	HA	4.2	582500
	HN	135	THR	HB	4.1	714500
	HN	135	THR	QG2	4.8	281600
	HN	136	TYR	HN	5.3	140800
	HN	136	TYR	CG	9	75100.0*2
	HB	136	TYR	HN	5.7	87200
	QG2	136	TYR	HN	5.5	423200
136 TYR						
	HN	136	TYR	HA	3.9	957100
	HN	136	TYR	HB2	3.9	856100
	HN	136	TYR	HB3	4.4	417900
	HN	136	TYR	CG	7	148450.0*2
	HN	136	TYR	CZ	6.9	53000.0*2
	HN	137	LYS+	HN	5.4	132000
	HA	137	LYS+	HN	3.3	2638000
	HA	138	TYR	HN	6.8	98050
	HB2	137	LYS+	HN	5.2	154600
	HB3	137	LYS+	HN	5.1	180300
	CG	137	LYS+	HN	8.9	191600.0*2
	CG	138	TYR	HN	9	130800.0*2
	HH	139	VAL	HN	5.7	494400
137 LYS+						
	HN	137	LYS+	HA	3.9	884200
	HN	137	LYS+	HB2	4.5	399100
	HN	137	LYS+	HB3	4.5	402500
	HN	137	LYS+	QG	6.1	124300.0*2
	HN	138	TYR	HN	5.5	110100
	HA	138	TYR	HN	3.6	1478000
	QG	138	TYR	HN	7.8	206200.0*2
	QD	138	TYR	HN	7.1	354100.0*2
	QE	140	ASP-	HN	6.7	528000.0*2
138 TYR						
	HN	138	TYR	HA	3.2	3308000
	HN	138	TYR	HB2	3.8	1076000
	HN	138	TYR	HB3	3.7	1225000
	HN	138	TYR	CG	6.5	253850.0*2
	HN	139	VAL	HN	5.4	124600
	HA	139	VAL	HN	3.3	2684000
	HB2	139	VAL	HN	5.1	188000
	HB3	139	VAL	HN	5.4	123500
	HB3	140	ASP-	HN	6.1	190400
	CG	139	VAL	HN	8.1	370700.0*2
	CZ	141	ILE	HN	9	39970.0*2
139 VAL						
	HN	139	VAL	HA	3.1	3472000
	HN	139	VAL	HB	4.4	447800
	HN	139	VAL	QG1	3.3	2846000
	HN	139	VAL	QG2	3.8	1130000
	HN	140	ASP-	HN	5.9	71560
	HA	140	ASP-	HN	3.2	3106000
	HB	140	ASP-	HN	3.9	907100
	QG1	140	ASP-	HN	4.6	845400
	QG1	142	ASN	HN	7.1	151200
	QG1	144	PHE	HN	6	290500
	QG2	145	ARG+	HN	6.1	284000
140 ASP-						
	HN	140	ASP-	HA	3.5	1649000
	HN	140	ASP-	QB	4.5	964000.0*2
	HN	142	ASN	HN	5.5	353000
	HA	141	ILE	HN	3.4	1934000
	HA	142	ASN	HN	4.7	868600
	QB	141	ILE	HN	5.3	468900.0*2
141 ILE						
	HN	141	ILE	HA	4.1	710200
	HN	141	ILE	HB	4	757400
	HN	141	ILE	QG2	4.7	335000
	HN	141	ILE	QG1	4.9	660500.0*2
	HN	141	ILE	QD1	4.9	267000
	HN	142	ASN	HN	4.1	708500
	HN	142	ASN	HA	5.4	131200
	HA	142	ASN	HN	3.9	946400
	HA	143	THR	HN	5.3	459400
	HA	144	PHE	HN	5.2	516900
	HB	142	ASN	HN	4.3	468000
	HB	144	PHE	HN	7	59590

	QG2	142	ASN	HN	6	304000
142 ASN						
	HN	142	ASN	HA	3.3	2539000
	HN	142	ASN	HB2	3.8	1008000
	HN	142	ASN	HB3	3.7	1156000
	HN	143	THR	HN	3.7	1327000
	HN	144	PHE	HN	6.1	196800
	HA	143	THR	HN	3.6	1468000
	HA	144	PHE	HN	5.1	535200
143 THR						
	HN	143	THR	HA	3.6	1526000
	HN	143	THR	QG2	4.3	545900
	HN	144	PHE	HN	3.5	1849000
	HN	144	PHE	HB2	4.9	232500
	HN	144	PHE	HB3	4.9	230600
	HN	145	ARG+	HN	6.3	155300
	HA	144	PHE	HN	4	747300
	HB	144	PHE	HN	4.3	533200
	QG2	144	PHE	HN	6.7	192600
144 PHE						
	HN	144	PHE	HA	3.8	1003000
	HN	144	PHE	HB2	3.9	907000
	HN	144	PHE	HB3	3.6	1396000
	HA	145	ARG+	HN	3.5	1699000
145 ARG+						
	HN	145	ARG+	HA	3.1	3959000
	HN	145	ARG+	HB2	4.4	460700
	HN	145	ARG+	HB3	3.9	861400
	HN	145	ARG+	HG2	4.7	206900
	HN	145	ARG+	HG3	4.7	205000
	HN	145	ARG+	HD2	5	143200
	HN	145	ARG+	HD3	5.1	124900
	HN	146	LEU	HN	4.6	353600
	HA	146	LEU	HN	3.7	1307000
	HB2	146	LEU	HN	3.7	1282000
	HB3	146	LEU	HN	4	836400
	HD2	146	LEU	HN	7	71090
	HD2	147	SER	HN	5.6	547700
	HD3	146	LEU	HN	7	142800
146 LEU						
	HN	146	LEU	HA	3.3	2521000
	HN	146	LEU	HB2	3.7	1208000
	HN	146	LEU	HB3	3.4	2276000
	HN	146	LEU	HG	4	576000
	HN	146	LEU	QD1	5.1	196100
	HN	146	LEU	QD2	4.3	540500
	HN	147	SER	HN	5.4	130700
	HB2	147	SER	HN	4.2	611600
	HB2	150	ASP-	HN	5.8	258400
	QD1	154	ILE	HN	8	75800
	QD2	147	SER	HN	5.3	498900
	QD2	151	ILE	HN	8	20690
147 SER						
	HN	147	SER	HA	3.3	2385000
	HN	147	SER	HB2	4.1	674000
	HN	147	SER	HB3	3.5	1898000
	HN	150	ASP-	HN	5.5	354800
	HN	151	ILE	HN	6.4	143500
	HA	148	ALA	HN	2.9	4972000
148 ALA						
	HN	148	ALA	HA	4.2	563200
	HN	148	ALA	QB	3.7	992800
	HA	151	ILE	HN	5.2	509800
	QB	149	ASP-	HN	4.6	273000
149 ASP-						
	HN	149	ASP-	HA	4.7	282100
	HN	149	ASP-	HB2	4.9	231100
	HN	149	ASP-	HB3	5.1	175700
	HN	150	ASP-	HN	5.2	154000
	HA	150	ASP-	HN	4.8	272900
	HB3	150	ASP-	HN	4.3	508600
150 ASP-						
	HN	150	ASP-	HA	3.5	1709000
	HN	150	ASP-	HB2	3.9	911100
	HN	150	ASP-	HB3	3.9	974400
	HN	151	ILE	HN	3.7	1254000
	HN	151	ILE	HG12	5.6	581300
	HN	152	ARG+	HN	5.5	368700
	HA	153	GLY	HN	6.4	147200
	HB2	151	ILE	HN	4.1	680600
	HB3	151	ILE	HN	4.4	443800
151 ILE						
	HN	151	ILE	HA	4.2	568700
	HN	151	ILE	HB	3.6	1580000
	HN	151	ILE	QG2	4.4	465600
	HN	151	ILE	HG12	3.7	864700
	HN	151	ILE	HG13	4	549200
	HN	151	ILE	QD1	4.4	465500
	HN	152	ARG+	HN	3.7	1176000
	HA	154	ILE	HN	4.8	820900
	HA	155	GLN	HN	4.9	749100
	QG2	152	ARG+	HN	4.5	976900
	QG2	155	GLN	HN	5.8	348100
	QD1	153	GLY	HN	8	75100
152 ARG+						
	HN	152	ARG+	HA	3.6	1420000
	HN	152	ARG+	HB2	3.9	846900
	HN	152	ARG+	HG2	3.9	596000
	HN	152	ARG+	HG3	3.9	653300
	HN	152	ARG+	QD	6.8	59050.0*2
	HB2	153	GLY	HN	3.9	958000
153 GLY						
	HN	153	GLY	HA1	3.4	2227000
	HN	153	GLY	HA2	3.3	2332000
	HN	155	GLN	HN	4.4	1456000
	HA1	154	ILE	HN	4.1	709700
154 ILE						
	HN	154	ILE	HA	3.6	1428000
	HN	154	ILE	HB	3.6	1511000
	HN	154	ILE	QG2	3.6	1691000
	HN	154	ILE	QD1	4.9	252300
	HA	157	LEU	HN	4.8	818000
	QG2	155	GLN	HN	4.8	724000
155 GLN						
	HN	155	GLN	HA	3.6	1497000
	HN	155	GLN	HB2	3.3	2434000
	HN	155	GLN	HB3	3.6	1513000
	HN	155	GLN	HG2	3.6	985000
	HN	155	GLN	HG3	3.6	965500
	HN	156	SER	HN	3.5	1767000
	HN	157	LEU	HN	5.9	230300
	HG2	155	GLN	HE21	4.3	369600
	HG2	155	GLN	HE22	3.8	751700
	HG3	155	GLN	HE21	4.4	326300
	HG3	155	GLN	HE22	3.8	713500
156 SER						
	HN	156	SER	HA	3.5	1627000
	HN	156	SER	HB3	3.5	1682000
	HN	157	LEU	HN	3.2	2770000
157 LEU						
	HN	157	LEU	HA	3.5	1619000
	HN	157	LEU	HB2	3.6	1576000
	HN	157	LEU	HB3	3.6	1533000
	HN	157	LEU	HG	3.4	1402000
	HN	157	LEU	QD1	3.9	991200
	HN	158	TYR	HN	4.1	699100
158 TYR						
	HN	158	TYR	CG	7.1	122050.0*2

The nomenclature of the atoms is that used by the program DYANA. The reported volumes of cross-peaks involving pseudoatoms correspond to the measured volumes divided by number of atoms represented by the pseudoatoms (a symbol *2 or *4 is present in these cases.