

REPORT OF THE 324th CELL EXCHANGE

APRIL 11, 2007

B-Cell Line	387-388
DNA Extract	381-384
Cells	1293-1296

B-cell line Exchange

We wish to acknowledge the generous collaboration of **Helen Bass and Christopher Darke, Welsh Blood Service, Pontyclun**, for providing many interesting cells to study in the exchange studies.

TER-387. This cell from a Caucasian donor was 11845457, also known as 35577, the reference cell for Cw*031102, sequenced by Hammond et al. (1). It was also typed as extract 381 for class I and the results were included in this same report.

DRB1*0103 (89%), formerly known as DR-BON or DR"Br," was detected by the majority of the labs.

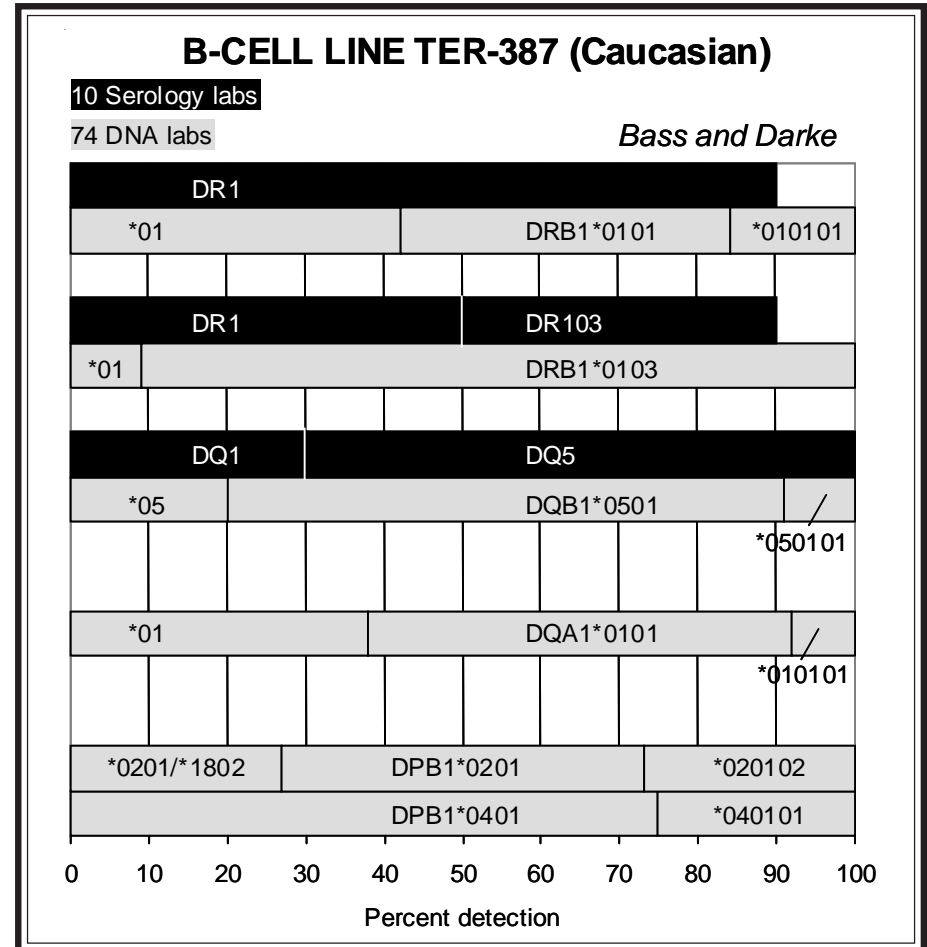
Over half of the labs assigned DRB1*0101 (57%) as the second DRB1 type, with 16% reporting DRB1*010101.

DR1 was assigned by 90%. Four labs (Dunn, Hahn, McAlack, Stewart) reported both DR1 and DR103.

Family studies by Hammond et al. confirmed that the haplotypes were DRB1*0101-DQB1*0501-DQA1*0101-DPB1*0401 and DRB1*0103-DQB1*0501-DQA1*0101-DPB1*0201. The DRB1*0103-DQB1*0501-DQA1*0101 association was also observed in a homozygous cell, TER-310 (also typed as TER-290). DRB1*0103 may also be found in association with DQB1*0301 and DQA1*0501, as typed in TER-270 (Cauc).

Darke reported DPA1*0103/07/09, - .

DPB1*0201 (*020102) and DPB1*0401 (*040101) were the DPB1 alleles. Four labs (Adams, Ball, Charron, Dormoy) indicated that, instead of DPB1*0201, DPB1*1802 was possible. Alternative DPB1 types offered were DPB1*2301, *8101 (Cook) and DPB1*0402, *3301 (KW Lee).

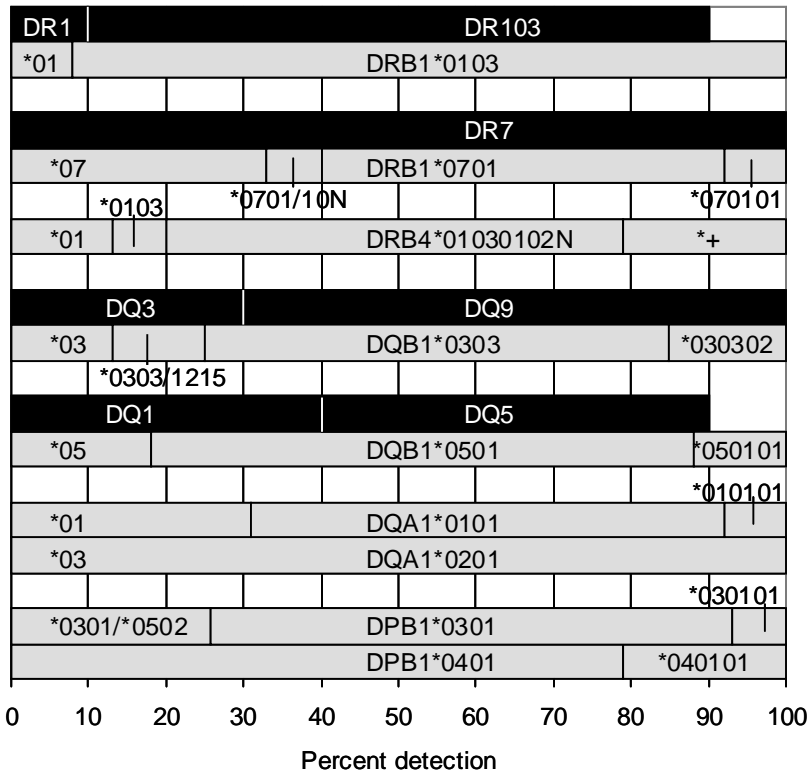


10 Serology labs

B-CELL LINE TER-388

72 DNA labs

Bass and Darke



TER-388. DRB1*0103 (90%) was well typed in this cell. DR1 was assigned by 90%, and DR103 by 80%.

The second DRB1 type was DRB1*0701 (59%). DR7 was assigned in complete consensus.

The likely haplotypes in this cell were DRB1*0103-DQB1*0501-DQA1*0101 and DRB1*0701-DRB4*01030102N-DQB1*0303-DQA1*0201.

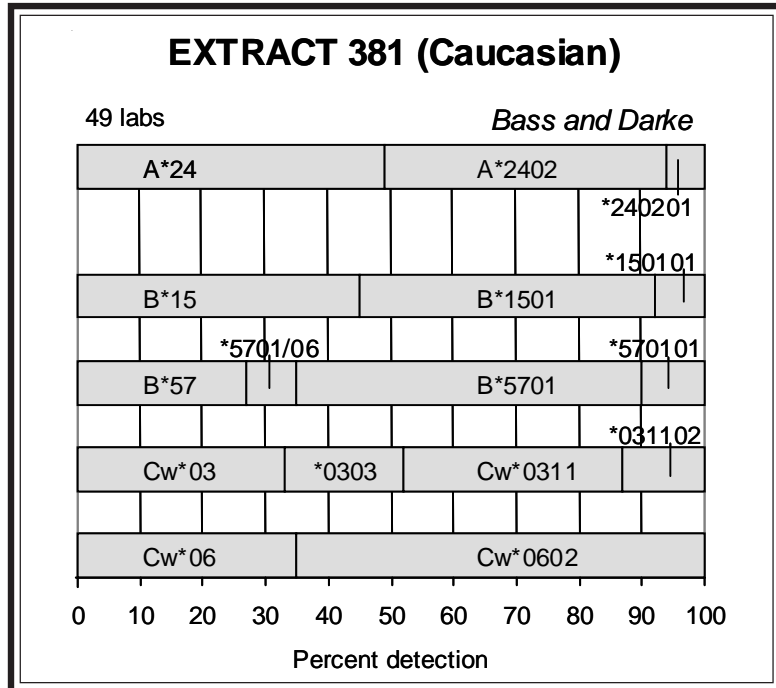
Darke reported DPA1*0103/07/09, - .

The labs reporting DPB1 alleles were in consensus for DPB1*0301 and DPB1*0401 (*040101). Four labs (Cook, Partanen, Wernet, Yu) assigned DPB1*0301/*0502, *0401. Cook and J.Lee noted that DPB1*2301 and DPB1*9201 were possible. Other possibilities were DPB1*5601, *8001 (Cook), or DPB1*5601, *1002 (J.Lee).

Extract Exchange

We thank **Helen Bass and Christopher Darke, Welsh Blood Service, Pontyclun**, for their many contributions of informative reference cells with unusual alleles.

A number of alleles, including B*3904 and Cw*031102, were typed for the first time in the Cell Exchange. Different B*15 subtypes, including B*1508, B*1511, and B*1513, were examined in this month's study.

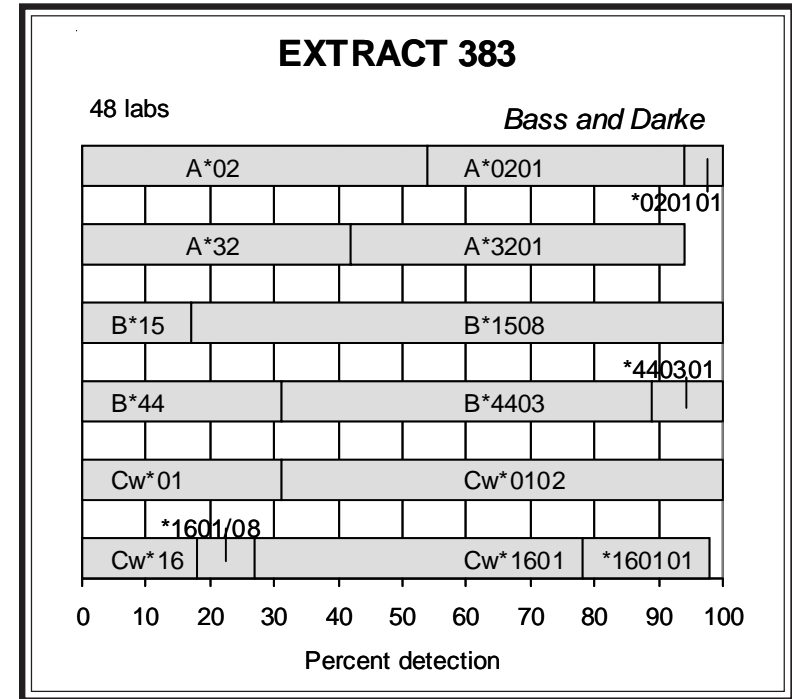
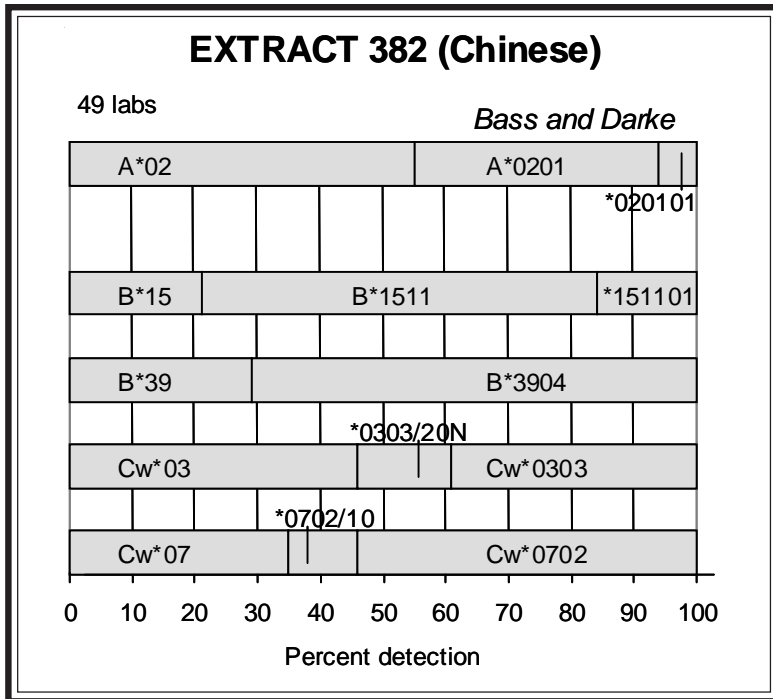


Extract 381. This cell from a Caucasian donor was 11845457, also named 35577, the reference cell for Cw*031102 (1), as correctly identified by Chen, and Moses and Dunckley. Hammond et al. sequenced this new allele after high-resolution PCR-SSP could not confirm Cw*0311 in this cell, "Subsequent nucleotide sequencing of exons 2 and 3 identified the Cw*03 sequence as identical to the Cw*0311 allele but with a synonymous mutation at position 126 in exon 2. This results in a variation of codon 18 of GGA→GGG (glycine)."

Cw*0311 (48%) was detected by almost half of the labs, with 13% assigning Cw*031102. Cw*031102 was assigned by Adams, Chan, Cook, Hartzman and Hurley, KH Lee, and Noche. Hidajat and Kato commented that possibly a new Cw*03 allele was present. It should be pointed out, however, that Cw*0303 was misassigned by a notable 19%.

Combining the family data by Hammond et al. and the present exchange data indicated that Cw*031102 was on the A*2402-B*1501-Cw*031102-DRB1*0101-DQA1*0101-DQB1*0501-DPA1*0103/07-DPB1*0401 haplotype in this cell. The cell was also typed as TER-387 (refer to results in this same report), confirming the class II typing. The other haplotype was A*2402-B*5701-Cw*0602-DRB1*0103-DQA1*0101-DQB1*0501-DPB1*0201.

Five additional Cw*031102 donors, unrelated to each other, were identified by Hammond et al. in the local donor pool, and all 5 donors had the same A, B, C, DRB1, and DQB1 alleles as present in this donor.



Extract 382. This Chinese cell was 13703390, also known as 39157, the reference cell for B*151101 and B*3904, as correctly identified by Brown, and Moses and Dunckley.

B*3904 was reported by 71%. B*3904 was typed for the first time in the Cell Exchange.

B*1511 (79%) was assigned by the majority, with B*151101 detected by 16%. Eight labs (Adams, Anthony Nolan Trust, Barnardo, Brown, Chan, Cook, Hartzman and Hurley, McIntyre) reported B*151101. Previous B*1511 exchange cells were extracts 63 (Thai) and 134, and cells 892 (Japn), 984 (Korean), and 1248 (Cauc/Asian).

Cw*0303 (39%) and Cw*0702 were the C-locus types. The probable associations were B*1511-Cw*0303 and B*3904-Cw*0702.

This study provided the labs the opportunity to type different Cw*03 alleles

and the ensuring information should help to refine their typing strategies in differentiating between Cw*0303 and Cw*0311.

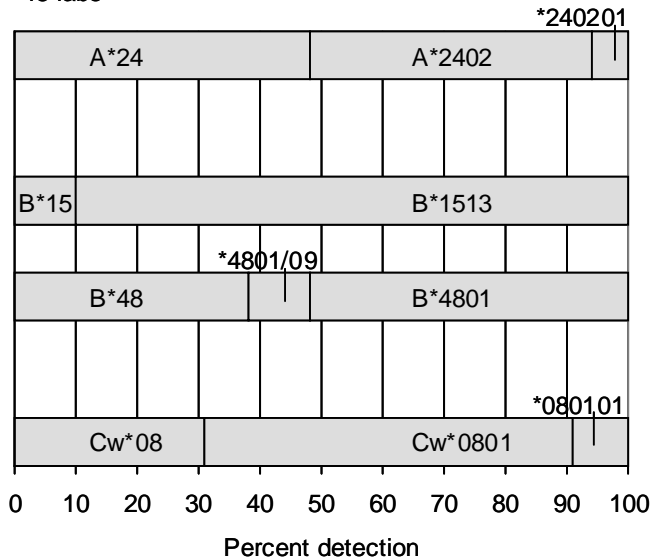
Extract 383. B*1508 (83%) was well detected in this cell. This was the fourth B*1508 donor to be typed in the Cell Exchange; the previous cells were extract 216 (NatAmer), cell 865 (Cauc), and cell 981 (AsIndian). Extract 216, also typed as extract 104, was DAN723, the B*1508 reference cell, originally typed as cell 723 in 1992; the cell was subsequently sequenced by Hildebrand et al. (2) and the B15 variant was formally named B*1508.

The second B-locus type was B*4403 (*440301).

The probable associations were B*1508-Cw*0102, as found in all previous B*1508 cells, and Cw*4403-Cw*1601.

EXTRACT 384 (Filipino)

48 labs



Extract 384. This cell was CAM020, the reference B*1513 cell, as correctly identified by Brown, and Moses and Dunckley. This cell was studied in the workshops as IHW#9256. CAM020 was previously typed as cell 724 in a 1992 study of B15 variants that included DAN723, the B*1508 reference. In the 1992 typing, B77 was detected by 32%, and the Bw4-associated B15 variant was sequenced by Hildebrand et al. (2), with the sequence formally recognized as B*1513.

B*1513 (90%) was assigned in nearly complete consensus. Previous B*1513 exchange cells were extract 43 (Filipino), and cells 825 (Filipino), 889 (Asian), and 1131 (Filipino).

B*4801 (52%) was the second B-locus allele.

Cw*0801 (69%) was the sole C-locus allele typed in this donor.

A*2402-B*1513-Cw*0801 and A*2402-B*4801-Cw*0801 were the probable haplotypes.

Cell Exchange

Cell 1293. This donor from a Black individual was previously typed as cell 1266 (2006), as correctly identified by a number of labs (Barnardo, Cook, Darke, Dormoy, Moses and Dunckley, Harville, Israel, Lefor, McAlack, McCluskey, Stamm, and Tiercy).

B70 was detected by 88%, with B71 assigned by 45%. The B71 split was confirmed by the DNA labs as B*1510 (60%).

B57 (96%), corroborated as B*5703 (69%), was the second B-locus antigen.

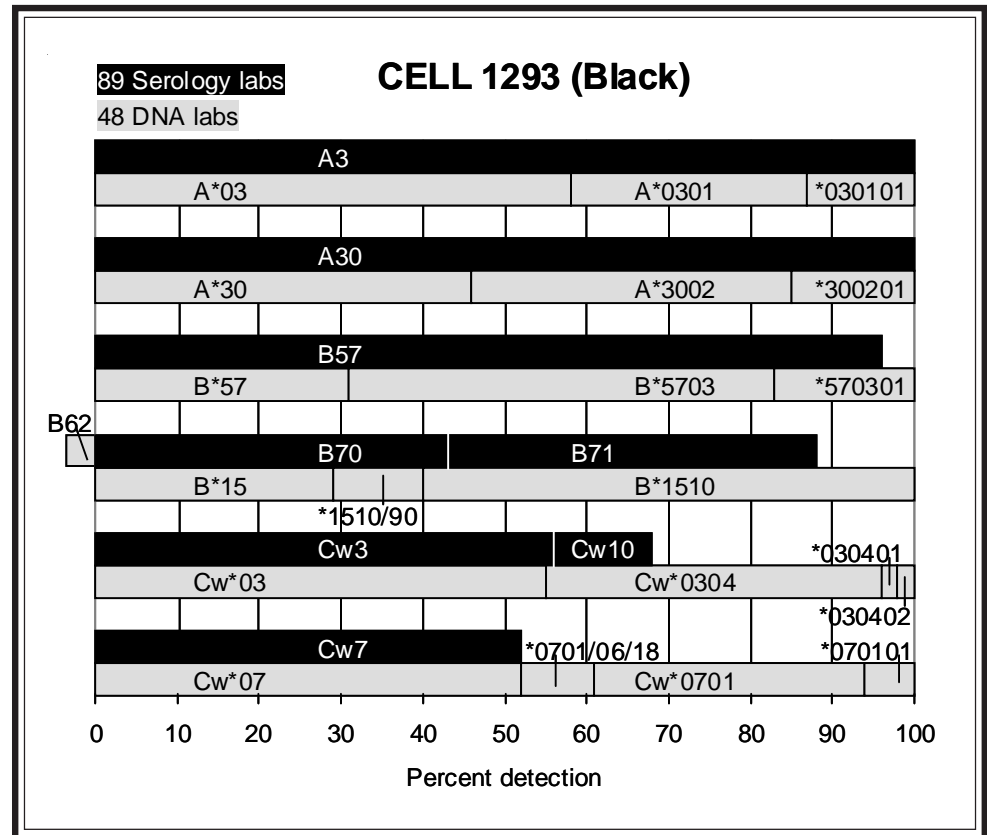
A3 and A30 were assigned in complete consensus, verified as A*0301 (*030101) and A*3002, respectively.

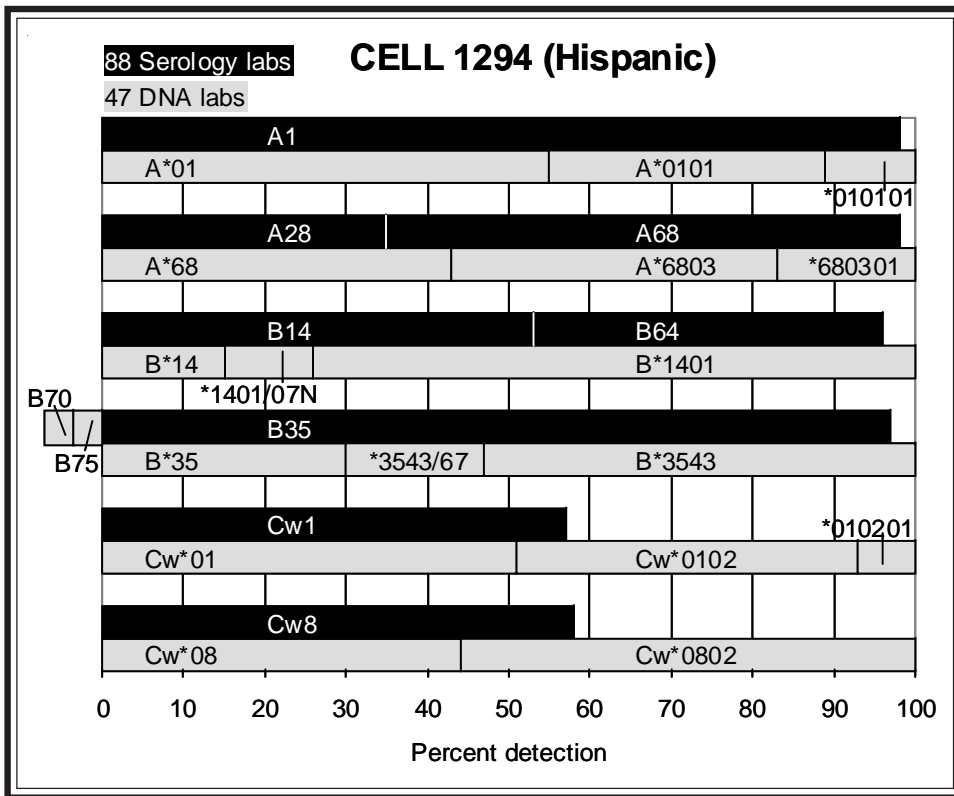
Cw3 (71%) and Cw7 (51%) were the C-locus antigens, corroborated as Cw*0304 and Cw*0701, respectively. When typed last year as cell 1266, Cw*030402 was reported by Cook, van den Berg-Loonen, and Yu. In this present typing, Cw*030401 was assigned by Hamdi and Cw*030402 by van den Berg-Loonen.

The associations of B*1510-Cw*0304 and B*5703-Cw*0701 were likely present in this cell.

In the previous typing of this donor in 2006, Van den Berg-Loonen performed additional typing procedures to confirm:

- 1) A*030101, *not* A*0320 and A*0321N, by sequencing exon 4
- 2) Cw*070101, *not* Cw*070102, Cw*0706, and Cw*0718, by SBT of exons 5 and 6





Cell 1294. This Hispanic donor with B*3543 was previously typed as cell 1252 in 2005, as noted by Barnardo, Cook, Darke, Moses and Dunckley, Harville, Lefor, Mah, McAlack, McCluskey, Stamm, and Tiercy. Barnardo, and Moses and Dunckley were correct in identifying this same donor as also typed as extract 356 (2006).

B35 was reported by 97%. Among comments of observed unusual reactivity were short anti-B35 reactivity (Hahn, Stamm), strong crossreactivity with anti-B70 sera (Harville), and strong crossreactivity with monoclonals reactive to the B75+B71 epitope (Steinberg). The misassignment for B70 decreased from 6% in the previous typing to the present 3% level. Standardization of typing for this B35 variant showed much improvement since the 1998 typing of cell 983 from a Caucasian donor with B*3543, when B35 was assigned by only 79% and B70 was misassigned by 12%.

B*3543, previously known as "B*1522," was assigned by 51%, with another 17% assigning B*3543/67.

B14 was reported by 98%, with 43% reporting B64 (32%), confirmed as B*1401 (74%).

A1 (98%) and A68 (63%) were verified as A*0101 (45%) and A*6803 (*680301) (57%), respectively.

Cw1 (63%) and Cw8 (65%) were established as Cw*0102 (49%) and Cw*0802 (56%), respectively.

The probable B-C loci associations were B*1401-Cw*0802 and B*3543-Cw*0102. The same B*3543-Cw*0102 was found in the 3 B*3543 reference cells that had C-locus typing results, including B503 (American Indian, from South America), FFAJ (Caucasian, from Spain), and JC (G2997) (Hispanic). B*3543-Cw*0102 was also present in cell 983.

Cell 1295. B81 was detected by 81% in this cell from a Black donor. Confirmation was provided by DNA typing, as B*81 was assigned by 98%, with 49% assigning B*8101.

The second B-locus type was B51 (99%) and B*5101 (*510101).

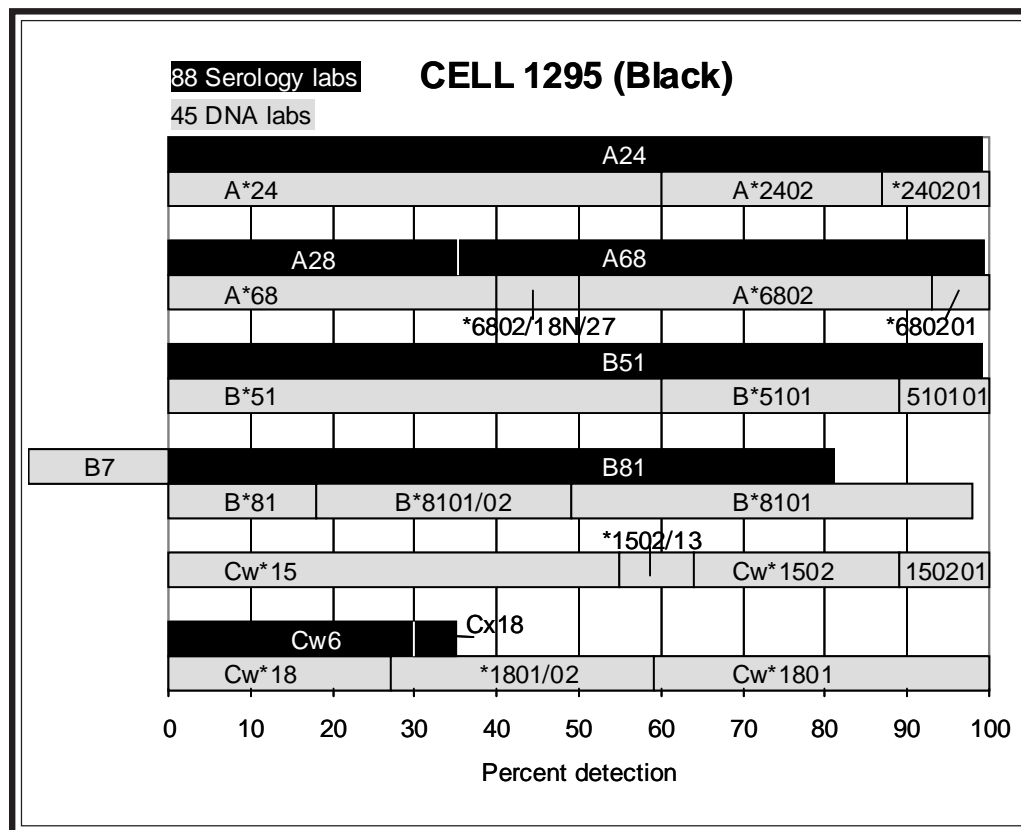
A68 was assigned by 64% as the A28 split, and A*6802 was reported by 50% as the subtype.

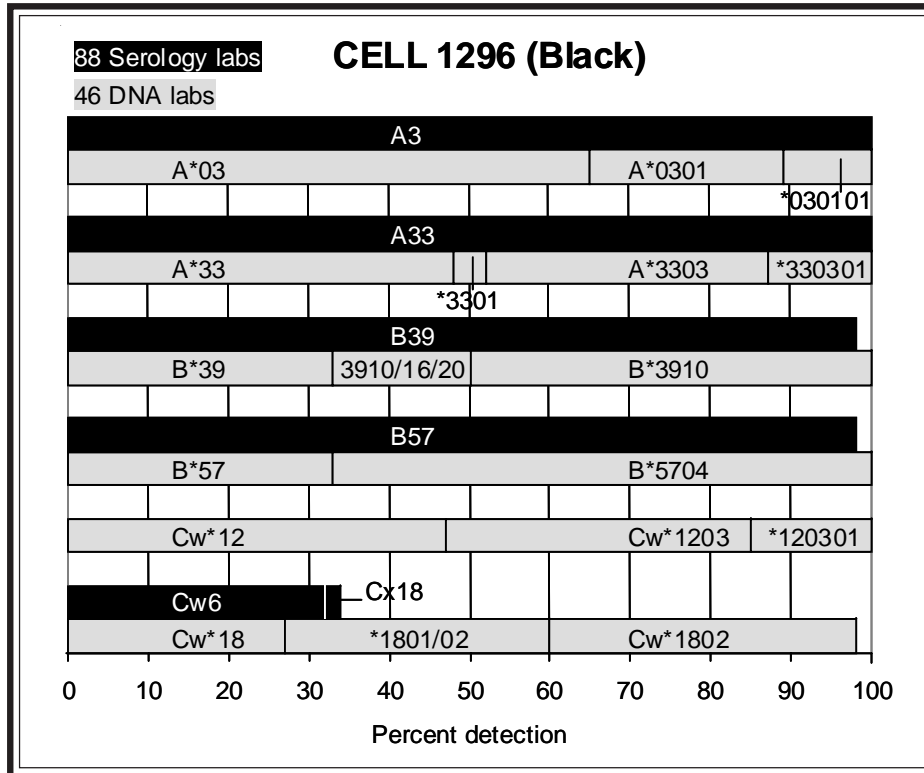
A24 (99%) was verified as A*2402 (*240201) by 37%.

Cw6 was assigned by 30%. Darke, Fotino, Lefor, Mah, and Pollack noted short reactivity. Cw*18 was detected by 100% and Cw*1801 was reported by 41%.

Cw*1502 (*150201) was the second C-locus type.

The probable B-C associations present in this cell were B*5101-Cw*1502 and B*8101-Cw*1801. Previous B*8101 exchange donors were found in association with Cw*0804 (cell 1219, extracts 94, 330, 331, 332) or Cw*1801 (cells 925, 926, extracts 16, 248, 291, 292) or Cw*1802 (extract 329). One of these previously typed cells, cell 926, was a Cw*1801 reference, Terasaki 926, as described by Cox et al. (3).





Cell 1296. This Black donor was previously typed as cell 1251 (2005), as noted by a number of labs.

B39 was detected by 98%. Abbal, Williams and Cicciarelli, J.Klein, and Pollack remarked that a variant was present, with shorter than normal reactivity. B*3910 was assigned by 50%.

B57 (98%) was assigned in nearly complete consensus; the rare B*5704 was detected by 67%.

Cw6 was assigned by 32%, with comments of short reactivity (Cook Darke, Fotino, Lefor, Mah, Pollack), as also observed with cell 1295. Cw*18 was assigned by 98%, with Cw*1802 reported by 38%. Regarding the correlation of Cw6 as the serologic equivalent of Cw*18, Mah said, "Cells #1295 and #1296 have weak Cw6 reactivity, typical of Cw*18..."

The likely B-C loci associations in this cell were B*3910-Cw*1203 and B*5704-Cw*1802.

References

1. Hammond L, Street J, Johnson J, Pepperall J, and Darke C. A new HLA-Cw*03 variant – Cw*031102. *Tissue Antigens* 2006;68:455.
2. Hildebrand WH, Domena JD, Shen SY, et al. HLA-B15: a widespread and diverse family of HLA-B alleles. *Tissue Antigens* 1994;43:209.
3. Cox ST, McWhinnie AJ, Robinson J, et al. Cloning and sequencing full-length HLA-B and -C genes. *Tissue Antigens* 2003;61:20.

NEXT MAILING DATE: May 9, 2007

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 * *
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B-CELL LINE TER-387

CTR DIRNAME	DRB1	DRB1X	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079 Abbal, M.	*0101	*0103	*0501						P-SSO, SSP
5488 Adams, Sharon	*010101	*0103	*050101		*01		*0201/*1802	*0401	SSP, SBT
2300 Allegheny Ge	*01	*0103	*05						SSP
105 Ball, Edward	*0101/16	*0103	*0501		*0101		*0201/*1802	*0401	P-SSP
785 Chan, So Ha	*010101	*0103	*0501		*0101/04/05				SBT
5232 Charlton, Ron	*0101	*0103	*0501	*0501					SSP
4492 Charron, D.	*0101	*0103	*0501		*0101		*0201/*1802	*0401	P-SSO, SSP
3224 Chen, Dongfen	*0101	*0103	*0501						SBT, SSO, SSP
3966 Chongolwatan	*0101	*0103	*0501						P-SSP
3632 Colombe, Beth	*0101	*0103	*0501						SSP
16 Cook, Daniel	*010101	*0103	*0501		*01		*020102//+	*040101//+	RSSO, SSP, SBT
5130 Costeas, Paul	*0101/08	*0103	*0501	*0501	*0101				SSP
779 Daniel, Claud	*010101-0204/04+	*0103	*050101-04						P-SSP
5219 Daniel, Dolly	*01		*05						P-SSP
3625 Darke, Chris	*0101	*0103	*0501		*0101		*0201	*0401	P-SSP
4269 Dormoy, Anne	*010101	*0103	*0501				*0201/*1802	*0401	P-SSP, SBT
3766 Dunn, Paul	*0101/05/07/08+	*0103	*0501						SSO
856 Dupont, Bo	*0101/05	*0103	*0501						SSP, SSO
3511 Duquesnoy, Re	*0101	*0103	*0501						RVSSOP, SSP
3428 Eckels, David	*0101/05/07/08+	*0103							SSOP
5214 Eckels, David	*01	*0103	*0501						SSOP
4251 Ellis, Thomas	*0101/07	*0103	*0501	*0501					P-SSO, SEQ
762 Fischer, Mayr	*0101	*0103	*0501						SSO, LBT, SBT
8043 Gideoni, Osna	*0101	*0103	*0501						SSP
910 Hahn, Amy B.	*0101/13/14	*0103	*0501						P-SSP
4691 Hajeer, Ali	*01	*01	*05	*05					
2344 Hurley/Hartz	*010101	*0103	*050101	*050101					SBT
771 Israel, Shosh	*0101	*0103	*0501						SSP, RVSSO
3261 Iwaki, Yui	*01	*0103	*05						SSP
859 Kamoun, Malek	*0101	*0103	*0501						P-SSO, SSP
797 Kato, Shunich	*0101/07	*0103	*0501						SSO; SBT-DRB1
4864 Kim, Kyeong-H	*01	*01							P-SSOP
4337 Kim, Tai-Gyu	*0101	*0103	*0501				*0201	*0401	SBT
168 Klein, Tirza	*0101	*0103	*0501						P-SSP, SSOP
5096 Kwon, So-Yong	*01	*01							RVSSOP
87 Land, Geoffre	*0101	*0103	*0501	*0501	*0101	*0101	*0201	*0401	SSP, SBT
725 Lardy, N.M.	NT								
748 Lazda, Velta	*01	*0103	*05						P-SSP
278 Lee, Jar-How	*0101	*0103	*0501		*0101/04/05/07		*0201/*1802+	*0401/*2301	SSP, RVSSO
640 Lee, Kyung Wh	*0101	*0103	*0501		*010101		*0201//+	*0401//+	P-SBT
6649 Lee, Wee Gyo	*01								P-SSP
759 Lefor, W.M.	*0101/05/07/08+	*0103	*0501						RVSSO
274 Lo, Raymundo	*0101	*0103	*05						SSP
731 Loewenthal, R	*010101	*0103	*050101/0301						SBT, SSP, SSO
23 Mah, Helen	*0101	*0103	*050101						P-RFLP, SSP
8029 Mani, Rama	*0101	*0103	*0501	*0501					P-SSP
9916 McIntyre, Joh	*010101	*0103	*0501						SSP, SBT
8021 Montague, Bri	*010101	*0103	*0501				*0201	*0401	P-SSP, SBT
792 Moore, S.Brea	*01	*0103	*05						P-SSP
5323 Murad, Shahna	*0102	*0103	*05						P-SSP
774 Paik, Young K	*0101/13/14	*0103	*0501						SSP
8001 Pancoska, Car	*0101	*0103	*0501						RVSSOP, SSP
794 Partanen, Juk	*0101	*0103	*0501		*0101		*0201	*0401	SBT, SSP, SSC
3648 Pereira, Noen	*0101/13/14	*0103	*0501						P-SSP

B-CELL LINE TER-387

CTR DIRNAME	DRB1	DRB1X	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
2400 Phelan, Donna	*0101/07	*0103	*0501						RVSSO, SBT
4689 Rajczy&Gyodi	*0101/14/16	*0103	*0501						P-SSP
3753 Reed, Elaine	*0101	*0103	*0501			*0101			SBT, SSP, SSC
782 Richard, Luci	*0101	*0103/13	*0501	*0501					SSO, SSP
1160 Rosen-Bronsc	*0101	*0103	*0501						RVSSO, SSP
793 Rubocki, Rona	*01	*0103	*05						P-SSP
8042 Shainberg, Br	*0101	*0103							P-SSP, SSOP
5133 Smith, D.M.	*010101	*0103	*0501						P-SSP, SBT
735 Smith, Dougla	*01	*01	*05						RVSSOP
746 Stamm, Luz	*0101/14	*0103	*0501	*0501					RVSSOP, SSP
3904 Stewart, Dod	*0101/14	*0103	*050101						P-SSP
13 Tagliere, Jac	*0101	*0103	*0501						
2332 Tbakhi, Abdel	*0101	*0103	*0501						SSP
747 Tiercy, Jean-	*0101	*0103	*0501				*020102	*040101	SSO, SSP, SBT
4021 Trachtenberg	*01	*0103	*0501						RVSSOP
5462 Turner, E.V.	*0101	*0103	*0501						SSP
5451 Van den Berg	*010101	*0103	*050101		*0101		*020102	*040101	SBT
5642 Varnavidou-N	*0101	*0103	*0501						P-SSP
705 Watkins, Dav	*010101	*0103	*050101-04						SSP, SEQ
3135 Wernet, Peter	*0101	*0103	*0501				*0201	*0401	P-SSP, SBT
5670 Williams, Mar	*01	*0103	*05						SSP
2847 Yamamori, Shun	*01	*01	*05						SSP
1466 Yu, Neng	*010101	*0103	*050101		*0101/04/05		*020102	*040101	SSOP, SBTex2

CTR DIRNAME	DR1	DR103	DQ5	OTH1	OTH2
16 Cook, Daniel	+		+		
3766 Dunn, Paul	+	+	DQ1		
2200 Furukawa, Yok	+		+		
910 Hahn, Amy B.	+	+	DQ1		
4908 Kvam, Vonnet	+		DQ1		
54 McAlack, Robe	+	+	+		
8004 Pais, Maria I				DR4, DR13+	DQ6
2400 Phelan, Donna	+		DQ1		
793 Rubocki, Rona	+		+		
3904 Stewart, Dod	+	+	+		

B-CELL LINE TER-387 (Caucasian)

76 DNA LABS

76 LABS REPORTING DRB1

DRB1*01	41%
DRB1*0101	42%
DRB1*010101	16%
DRB1*0102	1%
DRB1*01	100% TOTAL

DRB1*01	11%
DRB1*0103	89%
DRB1*01	100% TOTAL

71 LABS REPORTING DQB1

DQB1*05	21%
DQB1*0501	70%
DQB1*050101	9%
DQB1*05	100% TOTAL

14 LABS REPORTING DQA1

DQA1*01	36%
DQA1*0101	57%
DQA1*010101	7%
DQA1*01	100% TOTAL

16 LABS REPORTING DPB1

DPB1*0201	50%
DPB1*020102	25%
DPB1*0201/*1802	25%
DPB1*0401	75%
DPB1*040101	25%
DPB1*0401	100% TOTAL

10 SEROLOGY LABS

DR1	90%
DR103	40%

DQ1	40%
DQ5	50%
DQ1	90% TOTAL

B-CELL LINE TER-388

CTR DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
4079 Abbal,M.	*0103	*0701	*01030102N	*0303	*0501					P-SSO,SSP
5488 Adams,Sharon	*0103	*0701	*01030102N	*030302	*050101	*0101	*0201	*0301	*0401	SSP,SBT
2300 Allegheny Ge	NT									
105 Ball,Edward	*0103	*0701	*01030102N	*0303	*0501	*0101	*0201	*0301	*0401	P-SSP
785 Chan,So Ha	*0103	*0701/10N	*01	*0303	*0501	*0101+	*0201			SBT
5232 Charlton,Ron	*0103	*0701	*01030102N	*0303	*0501					SSP
4492 Charron,D.	*0103	*0701	*01030102N	*0303	*0501	*0101	*0201	*0301	*0401	P-SSO,SSP
3224 Chen,Dongfen	*0103	*0701	*0103N	*0303	*0501					SBT,SSO,SSP
3966 Chongolwatan	*0103	*0701	*0103	*0303	*0501					P-SSP
3632 Colombe,Beth	*0103	*0701	*0103N	*0303	*0501					SSP
16 Cook,Daniel	*0103	*070101	*0103N	*0303/12/15	*050101	*01	*0201	*030101/*0502	*040101	RSSO,SSP,SBT
5130 Costeas,Paul	*0103	*0701	*01030102N	*0303	*0501	*0101	*0201			SSP
779 Daniel,Claud	*0103	*070101/0102+	*01030102N	*030302/03/15	*050101-04					P-SSP
5219 Daniel,Dolly	*01	*07	*+	*03	*05					P-SSP
3625 Darke,Chris	*0103	*0701	*0103102N	*0303	*0501	*0101	*0201	*0301/*0502+	*0401	P-SSP
4269 Dormoy,Anne	NT									
3766 Dunn,Paul	*0103	*07	*0103N/07	*0303/12/15	*0501					SSO
856 Dupont,Bo	*0103	*0701	*+	*0303	*0501					SSP,SSO
3511 Duquesnoy,Re	*0103	*0701	*01030102N	*0303	*0501					RVSSOP,SSP
3428 Eckels,David	*0103	*07								SSOP
5214 Eckels,David	*0103	*07		*03(DQ9)	*0501					SSOP
4251 Ellis,Thomas	*0103	*0701	*0101/03/06	*0303	*0501					P-SSO,SEQ
762 Fischer/Mayr	*0103	*0701	*0101/03N	*0303	*0501					SSO,LBT,SBT
8043 Gideoni,Osna	*0103	*0701		*0303	*0501					SSP
910 Hahn,Amy	*0103	*0701/08/09+	*01030102N	*0303	*0501					P-SSP
4691 Hajeer,Ali	*01	*07	*+	*03	*05					
2344 Hurley/Hartz	*0103	*070101		*030302	*050101					SBT
771 Israel,Shosh	*0103	*0701		*0303	*0501					SSP,RVSSO
3261 Iwaki,Yui	*0103	*0701	*01030102N	*0303	*05					SSP
859 Kamoun,Malek	*0103	*0701	*01030102N	*0303	*0501					P-SSO,SSP
797 Kato,Shunich	*0103	*0701		*0303/12/15	*0501					SSO;SBT-DRB1
4864 Kim,Kyeong-H	*01	*07								P-SSOP
4337 Kim,Tai-Gyu	*0103	*0701		*0303	*0501			*0301	*0401	SBT
168 Klein,Tirza	*0103	*0701	*0103	*0303	*0501					P-SSP,SSOP
5096 Kwon,So-Yong	*01	*07								RVSSOP
87 Land,Geoffre	*0103	*0701	*01030102N	*0303	*0501	*0101	*0201	*0301	*0401	SSP,SBT
725 Lardy,N.M.	NT									
748 Lazda,Velta	*0103	*07	*+	*03(DQ9)	*05					P-SSP
278 Lee,Jar-How	*0103	*0701/10N	*01030102N	*0303	*0501	*0101+	*0201	*0301/*0502+	*0401/*7201	SSP,RVSSO
640 Lee,Kyung Wh	*0103	*0701		*0303	*0501	*010101	*0201	*0301	*0401	P-SBT
6649 Lee,Wee Gyo	*01	*07	*+							P-SSP
759 Lefor,W.M.	*0103	*0701/03/05+		*0303/12/15	*0501					RVSSO
274 Lo,Raymundo	*0103	*07	*+	*0303	*05					SSP
731 Loewenthal,R	*0103	*070101		*030302/15	*050101					SBT,SSO
23 Mah,Helen	*0103	*0701	*01	*0303	*050101					P-RFLP,SSP
8029 Mani,Rama	*0103	*0701	*+	*0303	*0501					P-SSP
9916 McIntyre,Joh	*0103	*0701	*01030102N	*0303	*0501					SSP,SBT
8021 Montague,Bri	*0103	*070101	*01030102N	*0303	*0501			*0301	*0401/*0502	P-SSP,SBT
792 Moore,S.Brea	*0103	*07	*+	*03(DQ9)	*05					P-SSP
5323 Murad,Shahna	*0103	*0701/04	*01	*03	*05					P-SSP
774 Paik,Young K	*0103	*0701/10N	*01030102N	*030302	*0501					SSP
8001 Pancoska,Car	*0103	*0701/10N	*01030102N	*0303	*0501					RVSSOP,SSP
794 Partanen,Juk	*0103	*0701	*0103N	*0303	*0501	*0101	*0201	*0301/*0502	*0401	SBT,SSP,SSC
3648 Pereira,Noen	*0103	*0701/09/10N		*030302	*0501					P-SSP

B-CELL LINE TER-388

CTR DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
2400 Phelan, Donna	*0103	*0701/12	*0103	*0303	*0501					RVSSO, SBT
4689 Rajczy&Gyodi	*0103	*0701/12	*01030102	*0303	*0501					P-SSP
3753 Reed, Elaine	*0103	*0701	*01030102N	*0303	*0501	*0101	*0201			SBT, SSP, SSC
782 Richard, Luci	*0103	*0701/09		*0303	*0501					SSO, SSP
1160 Rosen-Bronsc	*0103	*0701	*01030102N	*0303	*0501					RVSSO, SSP
793 Rubocki, Rona	*0103	*07	*01030102N	*03(DQ9)	*05					P-SSP
8042 Shainberg, Br	*0103	*0701								P-SSP, SSOP
5133 Smith, D.M.	*0103	*070101	*01030102N	*030302	*0501					P-SSP, SBT
735 Smith, Dougla	*01	*07	*0103N	*03	*05					RVSSOP, SSP
746 Stamm, Luz	*0103	*0701/10N	*01/*02	*0303	*0501					RVSSOP, SSP
3904 Stewart, Dod	*0103	*070101/09/10N	*01030102N	*030302	*050101					P-SSP
13 Tagliere, Jac	*0103	*0701	*0103	*030302	*0501					SSP
2332 Tbakhi, Abdel	*0103	*0701	*01	*0303	*0501					SSP
747 Tiercy, Jean-	*0103	*0701	*01030102N	*0303	*0501			*0301	*0401	SSO, SSP, SBT
4021 Trachtenberg	*0103	*07	*01/*0201N	*0303/15	*0501					RVSSOP
5462 Turner, E.V.	*0103	*0701	*0103N	*0303	*0501					SSP
5451 Van den Berg	*0103	*070101	*01030102N	*030302	*050101	*0101	*0201	*030101	*040101	SBT
5642 Varnavidou-N	*0103	*0701	*+	*030302	*0501					P-SSP
705 Watkins, Dav	*0103	*070101/0102	*01030102N	*030302/03/15	*050101-04					SSP, SEQ
3135 Wernet, Peter	*0103	*0701	*01030102N	*0303	*0501			*0301/*0502	*0401	P-SSP, SBT
5670 Williams, Mar	*0103	*07	*null	*03	*05					SSP
2847 Yamamori, Shun	*01	*07		*03	*05					SSP
1466 Yu, Neng	*0103	*0701	*01030102N	*030302	*050101	*0101+	*0201	*0301/*0502	*040101	SSOP, SBTex2

CTR DIRNAME	DR103	DR7	DQ9	DQ5	OTH1	OTH2
16 Cook, Daniel	+	+	DQ3	DQ1		
3766 Dunn, Paul	+	+	DQ3	DQ1		
2200 Furukawa, Yok	+	+	DQ3	+		
910 Hahn, Amy B.	+	+	+	DQ1		
4908 Kvam, Vonnet	+	+	+	DQ1		
54 McAlack, Robe	+	+	+	+		
8004 Pais, Maria I		+	+	+	DR13, DR53 DQ6	
2400 Phelan, Donna	DR1	+	+	+	DR53	
793 Rubocki, Rona	+	+	+	+		
3904 Stewart, Dod	+	+	+	+		

B-CELL LINE TER-388

74 DNA LABS

74 LABS REPORTING DRB1

DRB1*01	10%
DRB1*0103	90%
DRB1*01	100% TOTAL
DRB1*07	34%
DRB1*0701/10N	7%
DRB1*0701	51%
DRB1*070101	8%
DRB1*07	100% TOTAL

58 LABS REPORTING DRB4

DRB4*+	21%
DRB4*0103	7%
DRB4*0103N	10%
DRB4*0103102N	3%
DRB4*01030102N	47%
DRB4*01	12%

10 SEROLOGY LABS

DR1	10%
DR103	80%
DR1	90% TOTAL
DR7	100%

69 LABS REPORTING DQB1

DQB1*03	15%
DQB1*0303/12/15	6%
DQB1*0303/15	4%
DQB1*030302/15	1%
DQB1*0303	59%
DQB1*030302	15%
DQB1*03	100% TOTAL
DQB1*05	19%
DQB1*0501	69%
DQB1*050101	12%
DQB1*05	100% TOTAL

14 LABS REPORTING DQA1

DQA1*01	29%
DQA1*0101	64%
DQA1*010101	7%
DQA1*01	100% TOTAL
DQA1*0201	100%

15 LABS REPORTING DPB1

DPB1*0301	66%
DPB1*030101	7%
DPB1*0301/*0502	20%
DPB1*030101/*0502	7%
DPB1*0401	80%
DPB1*040101	20%
DPB1*0401	100% TOTAL

DQ3	30%
DQ9	70%
DQ3	100% TOTAL

DQ1	40%
DQ5	50%
DQ1	90% TOTAL

INVESTIGATOR	DNA EXTRACT #381 (Caucasian)		B1	B2	C1	C2	method
CTR NAME	A1	A2					
5488 Adams, Sharon	*240201		*150101	*570101	*031102	*0602	SBT, SSP, RSSO
2300 Allegheny Ge	*24		*15	*57	*03	*06	SSP
745 Anthony Nola	*2402		*1501	*5701	*0303	*0602	SSO, SSP, RSCA
2020 Barnardo, Mar	*2402/40N		*1501/50/60/71+	*5701-04/06+	*0311	*0602	SSP, SBT
4345 Blasczyk, Rai	*2402/02L/09N/11N/40N		*1501/01N/*9502+	*5701	*0311	*0602	PCR-SBT
5106 Brown, Colin	*24		*15	*5701/06	*0303/11/13	*0602/07/10	RVPCR-SSOP
785 Chan, Soh Ha	*2402/09N/11N/36N/40N		*1501/*9502/04+	*570101	*031102	*0602	SBT
3224 Chen, Dongfen	*2402		*1501	*5701	*0311	*0602	SBT, SSP, SSO
3966 Chongolwatan	*24		*15	*57	*0303	*0602	PCR-SSP
16 Cook, Daniel	*240201		*150101	*570101	*031102	*060201	RSSOP, SSP, SBT
3625 Darke, Christ	*24		*15	*57	*0311	*0602	PCR-SSP
1108 Davis, Mary	*2402		*1501	*5701	*0311	*0602	SSO, SSP
5891 Du, Keming	*2402/09N/11N/15		*1501/26N/33	*5701/06			PCR-SSO
3186 Dunckley, Hea	*24		*15011	*5701	*0311	*0602	SSP; +SBT-B
3766 Dunn, Paul	*24		*15	*5701/06	*0303/11/12/20N+	*0602/10/12/13	PCR-SSO, SSP
3428 Eckels, David	*2402	*2402	*1501	*5701	*0311	*0602	SBT
4251 Ellis, Thomas	*2402	*2402	*1501	*5701	*0311	*0602	PCR-SSO, SEQ
762 Fischer&Mayr	*2402		*1501	*5701	*0311	*0602	RSSO, SBTex1-3
729 Fotino, Maril	*2402		*1501	*5701	*0303	*0602/12	SSO, SSP
1461 Hidajat, Mela	*2402		*1501	*5701	*0303/11/30/new	*0602	SSO, SSP
615 Holdsworth, R	*2402/09N/11N/40N		*1501/01N/*9502+	*5701	*0311	*0602	SBT
2344 Hurley&Hartz	*24020101/0213+	*24020101/0213+	*15010101/*9502+	*570101	*031102	*06020101/020102	SBT, SSOP
3261 Iwaki, Yui	*24		*15(B62)	*57	*03(Cw9)	*06	SSP
797 Kato, Shunich	*2402		*1501/01N	*5701	*0303/11/12	*0602/10/12+	SSO, SBT
87 Land, Geoff	*2402	*2402	*1501	*5701	*0311/03	*0602	SBT, SSP
278 Lee, Jar-How	*2402/54/58-61/63/65		*1501/79N/81/82+	*5701	*0311	*0602/10/12/13	SSP, RVSSOP
640 Lee, Kyung Wh	*2402/09N/11N/36N/40N		*1501	*5701	*031102	*0602	PCR-SBT
9916 McIntyre, Joh	*240201		*15010101	*570101	*0303/30/31	*0602/14	SBT, SSP, SSO
5323 Murad, Shahna	*24		*15	*57	*03	*06	PCR-SSP
5107 Noche, Olivia	*24020101-0210		*1578	*570101-0103	*031102	*06020101/020102+	SSP
8022 Olerup, Olle	*2402		*1501	*5701	*0303	*0602	SSP
8000 Pahl, Armin	*24		*15	*57			SSO
5096 Park, Jong-su	*24	*24	*1501	*57			RVSSOP
794 Partanen, Juk	*2402		*1501	*5701	*0311	*0602	SBT, SSP, SSO
3648 Pereira, Noem	*24		*15	*57	*03	*06	PCR-SSP, RVSSO
2400 Phelan, Donna	*2402		*1501	*5701	*0303	*0602	RVSSO, SSP
4689 Rajczyk&Gyodi	*24		*15	*57	*0311/18	*06	PCR-SSP, SSO
3753 Reed, Elaine	*2402		*1501	*5701	*0311	*0602	SBT, SSP, SSOP
782 Richard, Luc	*24	*24	*15	*57	*03	*06	SSO, SSP
1694 Sauer, Norber	*24		*15	*57	*03	*06	SSP
3545 Scornik, Juan	*2402		*1501	*5701	*0311	*0602	SSOP, SBT
8042 Shainberg, Br	*2402	*2402	*1501	*5701	*0303	*0602	PCR-SSP, SSO
5133 Smith, D.M.	*24		*1501/01N/33/34+	*5701/06	*0303/11/12/20N+	*06	PCR-SSO
740 Snider, Denis	*2402		*1501	*5701	*0311	*0602	SSP
746 Stamm, Luz	*2402		*1501	*5701	*0303	*0602	RVSSOP, SSP
13 Tagliere, Jac	*2402		*1501	*5701	*0303	*0602	SSP
4021 Trachtenberg	*24	*24	*15	*57	*03	*06	RVSSOP, SSP
5462 Turner, E.V.	*2402		*1501	*5701	*0303	*0602	SSP
3135 Wernet, Peter	*2402		*1501	*5701	*0311	*0602	SBT, PCR-SSO

INVESTIGATOR		DNA EXTRACT #382 (Chinese)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
5488	Adams, Sharon	*020101		*151101	*3904	*03	*07	SBT, SSP, RSSO
2300	Allegheny Ge	*02		*15	*39	*03	*07	SSP
745	Anthony Nola	*0201/31		*151101	*3904	*0303	*0702	SSO, SSP, RSCA
2020	Barnardo, Mar	*0201/09/43N/66/75/83N/89		*151101	*3904	*0303/13/20	*0702/10/15/32	SSP, SBT
4345	Blasczyk, Rai	*0201/01L/09/43N/66/75/83N/89		*1511	*3904	*0303/20N	*0702	PCR-SBT
5106	Brown, Colin	*02		*151101	*3904	*0303/11/13	*0702/10/17/19+	RVPCR-SSOP
785	Chan, Soh Ha	*0201/09/43N/66/75/83N/89/97		*151101	*3904	*0303/04/13/20N	*0702/10/15	SBT
3224	Chen, Dongfen	*0201		*1511	*3904	*0303/20N	*0702	SBT, SSP, SSO
3966	Chongolwatan	*02		*1511	*39	*0303	*0702	PCR-SSP
16	Cook, Daniel	*020101		*151101	*3904	*030301+// *0313	*070201// *0710	RSSOP, SSP, SBT
3625	Darke, Christ	*02		*1576	*39	*0303	*0702	PCR-SSP
1108	Davis, Mary	*0201		*1511	*3904	*0303	*0702	SSO, SSP
5891	Du, Keming	*0201/07/09		*1511	*3904			PCR-SSO
3186	Dunckley, Hea	*02		*1508/11/15	*39	*0303/11-13/18+	*07	SSP; +SBT-B
3766	Dunn, Paul	*02		*1511	*3904/31/41	*0303/11-13/20N+	*0702/10	PCR-SSO, SSP
3428	Eckels, David	*0201	*0201	*1511	*3904	*0303/13/20N	*0702/10	SBT
4251	Ellis, Thomas	*0201	*0201	*1511	*3904	*0303/20N	*0702	PCR-SSO, SEQ
762	Fischer&Mayr	*0201/09		*1511	*3904	*0303	*0702	RSSO, SBTex1-3
729	Fotino, Maril	*0201		*1511	*3904	*0303	*0702	SSO, SSP
1461	Hidajat, Mela	*0201		*1511	*3904	*0303	*0702	SSO, SSP
615	Holdsworth, R	*0201/09/43N/66/75/83N/89/97		*1511	*3904	*0303/20N	*0702	SBT
2344	Hurley&Hartz	*02010101/0108/66+	*02010101/0108/66+	*151101	*3904	*030301/20N	*07020101/020102+	SBT, SSOP
3261	Iwaki, Yui	*02		*1511/31	*39	*03(Cw9)	*07	SSP
797	Kato, Shunich	*0201/01L		*1511	*3904	*0303/13	*0702/10	SSO, SBT
87	Land, Geoff	*0201	*0201	*1511	*3904	*0303	*0702	SBT, SSP
278	Lee, Jar-How	*0201/0102L/66-68/70/71/74-77/82N+		*1511	*3904	*0303/20N/22Q	*0702/39	SSP, RVSSOP
640	Lee, Kyung Wh	*0201/09/43N/66		*1511	*3904	*0303	*0702	PCR-SBT
9916	McIntyre, Joh	*020101		*151101	*3904	*0303/30/31	*0702	SBT, SSP, SSO
5323	Murad, Shahna	*02		*15	*39	*03	*07	PCR-SSP
5107	Noche, Olivia	*02010101-0112		*151101/1102	*3904	*030301-0304	*07020101-020103	SSP
8022	Olerup, Olle	*0201		*1511	*3904	*0303	*0702	SSP
8000	Pahl, Armin	*02		*15	*39			SSO
5096	Park, Jong-su	*02	*02	*1511	*39			RVSSOP
794	Partanen, Juk	*0201		*1511	*3904	*0303	*0702	SBT, SSP, SSO
3648	Pereira, Noem	*02		*15	*39	*03	*07	PCR-SSP, RVSSO
2400	Phelan, Donna	*0201/74		*1511	*3904	*0303	*0702	RVSSO, SSP
4689	Rajczyk&Gyodi	*0201/96/97		*1508/11/15	*3904/09	*0303/12/20N/22Q	*07	PCR-SSP, SSO
3753	Reed, Elaine	*0201		*1511	*3904	*0303/13/20N	*0702/10	SBT, SSP, SSOP
782	Richard, Luc	*02	*02	*15	*39	*03	*07	SSO, SSP
1694	Sauer, Norber	*02		*15	*39	*03	*07	SSP
3545	Scornik, Juan	*0201		*1511	*3904	*0303/20N	*0702	SSOP, SBT
8042	Shainberg, Br	*0201	*0201	*1511	*3904	*0303	*0702	PCR-SSP, SSO
5133	Smith, D.M.	*02		*1511	*39	*0303/11-13/20N+	*07	PCR-SSO
740	Snider, Denis	*0201		*1511	*3904	*0303	*0702	SSP
746	Stamm, Luz	*0201		*1511	*3904	*0303	*0702	RVSSOP, SSP
13	Tagliere, Jac	*0201		*1511	*3904	*0303	*0702	SSP
4021	Trachtenberg	*02	*02	*1511	*3904	*03	*07	RVSSOP, SSP
5462	Turner, E.V.	*0201		*1511	*3904	*0303	*0702	SSP
3135	Wernet, Peter	*0201/01L		*1511	*3904	*0303/20N	*0702/10	SBT, PCR-SSO

INVESTIGATOR		DNA EXTRACT #383						method
CTR	NAME	A1	A2	B1	B2	C1	C2	
5488	Adams, Sharon	*020101	*3201	*1508	*440301	*0102	*160101	SBT, SSP, RSSO
2300	Allegheny Ge	NT						
745	Anthony Nola	*0201	*3201	*1508	*4403	*0102	*160101	SSO, SSP, RSCA
2020	Barnardo, Mar	*0201/43N+// *0240	*3201// *3206	*1508	*440301	*0102/06/08/11	*1601/07/08	SSP, SBT
4345	Blasczyk, Rai	*0201/01L/09/43N+	*3201	*1508	*4403	*0102	*1601	PCR-SBT
5106	Brown, Colin	*02	*32	*1508	*4403/07/13+	*0102/06-08/11	*1601	RVPCR-SSOP
785	Chan, Soh Ha	*02	*32/*74	*1508	*440301	*0102/10/11	*160101	SBT
3224	Chen, Dongfen	*0201	*3201	*1508	*4403	*0102	*1601	SBT, SSP, SSO
3966	Chongolwatan	*0201	*32	*1508	*4403	*0102	*1601	PCR-SSP
16	Cook, Daniel	*020101	*3201	*1508	*440301	*010201	*160101	RSSOP, SSP, SBT
3625	Darke, Christ	*02	*32	*1508/56	*4403	*0102	*1601	PCR-SSP
1108	Davis, Mary	*0201	*3201	*1508	*4403	*0102	*1601	SSO, SSP
5891	Du, Keming	*0201/07	*3201/05/08	*1508/11	*4403/07			PCR-SSO
3186	Dunckley, Hea	*02	*32	*1508/11/15	*44	*01	*16	SSP; +SBT-B
3766	Dunn, Paul	*02	*3201/05-07/11Q	*1508	*4403/26/36+	*0102/07/11	*1601/08	PCR-SSO, SSP
3428	Eckels, David	*0201/40/81/90	*3201/06/08/*7406	*1508	*4403	*0102	*1601	SBT
4251	Ellis, Thomas	*0201	*3201	*1508	*4403	*0102	*1601	PCR-SSO, SEQ
762	Fischer&Mayr	*0201/09	*3201	*1508	*4403	*0102	*1601	RSSO, SBTex1-3
729	Fotino, Maril	*0201	*3201	*1508	*4403	*0102	*1601	SSO, SSP
1461	Hidajat, Mela	*0201	*3201/11Q	*1508	*4403	*0102	*1601/08	SSO, SSP
615	Holdsworth, R	*0201/09/43N/66+	*3201	*1508	*4403	*0102	*1601	SBT
2344	Hurley&Hartz	*02010101/0108/66+	*3201	*1508	*440301	*010201/0202	*160101	SBT, SSOP
3261	Iwaki, Yui	*02	*32	*1508	*44	*01	*16	SSP
797	Kato, Shunich	*0201/01L/40	*3201/06	*1508	*4403	*0102	*1601	SSO, SBT
87	Land, Geoff	*0201	*3201	*1508	*4403	*0102	*1601	SBT, SSP
278	Lee, Jar-How	*0201/0102L/66/67+	*3201/11Q	*1508	*4403/36/38/39	*010201	*160101	SSP, RVSSOP
640	Lee, Kyung Wh	*0201/09/43N/66	*3201	*1508	*4403	*0102	*1601	PCR-SBT
9916	McIntyre, Joh	*020101	*3201	*1508	*4403	*0102	*160101	SBT, SSP, SSO
5323	Murad, Shahna	*02	*32	*1508	*44	*01	*16	PCR-SSP
5107	Noche, Olivia	*02010101-0112	*3201	*1508	*4403	*010201-0203	*160101	SSP
8022	Olerup, Olle	*0201	*3201	*1508	*4403	*0102	*1601	SSP
8000	Pahl, Armin	*02	*32	*15	*44			SSO
5096	Park, Jong-su	*02	*32	*1508	*44			RVSSOP
794	Partanen, Juk	*0201	*3201	*1508	*4403	*0102	*1601	SBT, SSP, SSO
3648	Pereira, Noem	*02	*32	*15	*44	*01	*16	PCR-SSP, RVSSO
2400	Phelan, Donna	*0201	*3201	*1508	*4403	*0102	*1601	RVSSO, SSP
4689	Rajczyk&Gyodi	*0201/96/97	*32	*1508/11/15	*44	*01	*1601/08	PCR-SSP, SSO
3753	Reed, Elaine	*0201/40/81/90	*3201/06/08/*7406	*1508	*4403	*0102	*1601	SBT, SSP, SSOP
782	Richard, Luc	*02	*32	*15	*44	*01	*16	SSO, SSP
1694	Sauer, Norber	*02	*32	*15	*44	*01	*16	SSP
3545	Scornik, Juan	*0201	*3201	*1508	*4403	*0102	*1601	SSOP, SBT
8042	Shainberg, Br	*0201	*3201	*1508	*4403	*0102	*0102	PCR-SSP, SSO
5133	Smith, D.M.	*02	*32	*1508	*44	*01	*16	PCR-SSO
740	Snider, Denis	*0201	*3201	*1508	*4403	*0102	*1601	SSP
746	Stamm, Luz	*0201	*3201	*1508	*4403	*0102	*1601	RVSSOP, SSP
13	Tagliere, Jac	*0201	*3201	*1508	*4403	*0102	*160101	SSP
4021	Trachtenberg	*02	*32	*1508	*44	*01	*1601/08	RVSSOP, SSP
5462	Turner, E.V.	*0201	*3201	*1508	*4403	*01	*1601	SSP
3135	Wernet, Peter	*0201/01L	*3201	*1508	*4403	*0102	*1601	SBT, PCR-SSO

INVESTIGATOR		DNA EXTRACT #384 (Filipino)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
5488	Adams, Sharon	*240201		*1513	*4801	*080101		SBT, SSP, RSSO
2300	Allegheny Ge	NT						
745	Anthony Nola	*2402		*1513	*4801	*0801		SSO, SSP, RSCA
2020	Barnardo, Mar	*2402/40N		*1513	*4801/09	*0801		SSP, SBT
4345	Blasczyk, Rai	*2402/02L/09N/11N/40N		*1513	*4801/09	*0801		PCR-SBT
5106	Brown, Colin	*24		*1513	*4801/09-12	*0801/03/04/06/08		RVPCR-SSOP
785	Chan, Soh Ha	*2402/09N/11N/36N/40N		*1513	*4801/09	*080101		SBT
3224	Chen, Dongfen	*2402		*1513	*4801	*0801		SBT, SSP, SSO
3966	Chongolwatan	*24		*1513	*48	*08		PCR-SSP
16	Cook, Daniel	*240201		*1513	*4801	*080101		RSSOP, SSP, SBT
3625	Darke, Christ	*24		*1513	*48	*08		PCR-SSP
1108	Davis, Mary	*2402		*1513	*4801	*0801		SSO, SSP
5891	Du, Keming	*2402/09N/11N		*1513	*4801			PCR-SSO
3186	Dunckley, Hea	*24		*1513	*48	*08		SSP; +SBT-B
3766	Dunn, Paul	*24		*1513	*4801/09/11	*0801/08		PCR-SSO, SSP
3428	Eckels, David	*2402	*2402	*1513	*4801	*0801	*0801	SBT
4251	Ellis, Thomas	*2402	*2402	*1513	*4801	*0801	*0801	PCR-SSO, SEQ
762	Fischer&Mayr	*2402		*1513	*4801	*0801		RSSO, SBTex1-3
729	Fotino, Maril	*2402		*1513	*4801	*0801/03		SSO, SSP
1461	Hidajat, Mela	*2402		*1513	*4801/11	*0801		SSO, SSP
615	Holdsworth, R	*2402/09N/11N/40N		*1513	*4801/09	*0801		SBT
2344	Hurley&Hartz	*24020101/0213+	*24020101/0213+	*1513	*4801/09	*080101		SBT, SSOP
3261	Iwaki, Yui	*24		*1513	*48	*08		SSP
797	Kato, Shunich	*2402		*1513	*4801	*0801		SSO, SBT
87	Land, Geoff	*2402	*2402	*1513	*4801	*0801	*0801	SBT, SSP
278	Lee, Jar-How	*2402/54/58-61N/63/65		*1513	*4801/09/11	*0801		SSP, RVSSOP
640	Lee, Kyung Wh	*2402/09N/11N/36N/40N		*1513	*4801	*0801		PCR-SBT
9916	McIntyre, Joh	*240201		*1513	*4801	*0801		SBT, SSP, SSO
5323	Murad, Shahna	*24		*1513	*48	*08		PCR-SSP
5107	Noche, Olivia	*24020101-0210		*1513	*4801	*080101/0102		SSP
8022	Olerup, Olle	*2402		*1513	*4801	*0801		SSP
8000	Pahl, Armin	*24		*15	*48			SSO
5096	Park, Jong-su	*24	*24	*1513	*48			RVSSOP
794	Partanen, Juk	*2402		*1513	*4801	*0801		SBT, SSP, SSO
3648	Pereira, Noem	*24		*15	*48	*08		PCR-SSP, RVSSO
2400	Phelan, Donna	*2402		*1513	*4801/09/10	*0801		RVSSO, SSP
4689	Rajczyk&Gyodi	*24		*15	*48	*08		PCR-SSP, SSO
3753	Reed, Elaine	*2402		*1513	*4801	*0801		SBT, SSP, SSOP
782	Richard, Luc	*24	*24	*15	*48	*08	*08	SSO, SSP
1694	Sauer, Norber	*24		*15	*48	*08		SSP
3545	Scornik, Juan	*2402		*1513	*4801	*0801		SSOP, SBT
8042	Shainberg, Br	*2402	*2402	*1513	*4801	*0801	*0801	PCR-SSP, SSO
5133	Smith, D.M.	*24		*1513	*48	*08		PCR-SSO
740	Snider, Denis	*2402		*1513	*4801	*0801		SSP
746	Stamm, Luz	*2402		*1513	*4801	*0801		RVSSOP, SSP
13	Tagliere, Jac	*2402		*1513	*4801	*0801		SSP
4021	Trachtenberg	*24	*24	*1513	*48	*08	*08	RVSSOP, SSP
5462	Turner, E.V.	*2402		*1513	*4801	*0801		SSP
3135	Wernet, Peter	*2402		*1513	*4801	*0801		SBT, PCR-SSO

SUMMARY

Extract 381 (Caucasian)
49 labs
 A*24 49%
 A*2402 45%
 A*240201 6%
 A*24 100% TOTAL

Extract 382 (Chinese)
49 labs
 A*02 55%
 A*0201 39%
 A*020101 6%
 A*02 100% TOTAL

Extract 383
48 labs
 A*02 54%
 A*0201 40%
 A*020101 6%
 A*02 100% TOTAL

Extract 384 (Filipino)
48 labs
 A*24 48%
 A*2402 46%
 A*240201 6%
 A*24 100% TOTAL

A*32 42%
 A*3201 52%
 A*32 94% TOTAL

49 labs
 B*15 43%
 B*1501 47%
 B*15011 2%
 B*150101 4%
 B*15010101 2%
 B*1578 2%
 B*15 100% TOTAL

 B*57 27%
 B*5701/06 8%
 B*5701 55%
 B*570101 10%
 B*57 100% TOTAL

49 labs
 B*15 19%
 B*1511 63%
 B*151101 16%
 B*1576 2%
 B*15 100% TOTAL

 B*39 29%
 B*3904 71%
 B*39 100% TOTAL

48 labs
 B*15 17%
 B*1508 83%
 B*15 100% TOTAL

 B*44 31%
 B*4403 58%
 B*440301 11%
 B*44 100% TOTAL

48 labs
 B*15 10%
 B*1513 90%
 B*15 100% TOTAL

 B*48 38%
 B*4801/09 10%
 B*4801 52%
 B*48 100% TOTAL

45 labs
 Cw*03 33%
 Cw*0303 19%
 Cw*0311 35%
 Cw*031102 13%
 Cw*03 100% TOTAL

 Cw*06 35%
 Cw*0602 63%
 Cw*060201 2%
 Cw*06 100% TOTAL

45 labs
 Cw*03 46%
 Cw*0303/20N 13%
 Cw*030301/20N 2%
 Cw*0303 39%
 Cw*03 100% TOTAL

 Cw*07 35%
 Cw*0702/10 11%
 Cw*0702 50%
 Cw*070201 4%
 Cw*07 100% TOTAL

44 labs
 Cw*01 31%
 Cw*0102 65%
 Cw*010201 4%
 Cw*01 100% TOTAL

 Cw*16 18%
 Cw*1601/08 9%
 Cw*1601 51%
 Cw*160101 20%
 Cw*16 98% TOTAL

44 labs
 Cw*08 31%
 Cw*0801 60%
 Cw*080101 9%
 Cw*08 100% TOTAL