We wish to acknowledge Nancy Goeken, University of Iowa, Iowa City, and Fu-Meei Robbins, National Institutes of Health, Bethesda, and Helen Bass, Jane Rowlands, and Christopher Darke, Welsh Blood Service, Pontyclun, for their generous collaboration in offering interesting cells to type in our exchange studies.

**TER-405.** This Caucasian cell was R.B (1), the DRB1*1317 reference, as correctly identified by Ball and Tiercy. This same cell was previously typed as TER-351 (2004), as noted by Ball, Hahn, Lefor, Mah, Pidwell, and Tiercy.

In this present retyping, DRB1*1317 was detected by 82%, nearly identical to the detection level of 81% 4 years ago. By serology, DR13 was assigned by 50% and DR8 was assigned by 2 labs. Pidwell reported DR13x8 and Hahn assigned DR8 in “Others.” These conflicted assignments were in agreement with Rosenberg et al.’s original description of the expression of this allele as a recombinant DR8x13 (1). In the 2004 typing, DR13 (53%) and DR8 (41%) were reported.

DR52 was assigned by only 75%. In the previous typing, DR52 was reported by only 65%. Those labs assigning DR8 would not normally expect DR52 to be present.

The probable associations in this cell were DRB1*0401-DRB4*0103-DQB1*0302-DQA1*0301 and DRB1*1317-DRB3*0202-DQB1*0402DQA1*0401. DQB1*0402 and DQA1*0401 are commonly found in association with DRB1*0801 and DRB1*0802. In the previous 2004 report, Lefor commented, “The apparent linkage with DQB1*0402 further implies that this is more DR8 than DR13.”

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

DPB1*0401 and DPB1*0402 were assigned by the majority. Six labs noted that, instead of DPB1*0402, DPB1*0602 was possible. Ellis and Pidwell reported that DPB1*2301 and DPB1*5101 were possible DPB1 alleles.
TER- 406. This cell was TER331, as correctly identified by Ball, one of 4 reference cells for the rare DRB1*1306. It was previously typed as TER-331 in 2003. This cell is the sole DRB1*1306 typed in the Cell Exchange. DRB1*1306 was detected by 81%, similar to the 78% detection level in 2003. DR13 was assigned by 88%.

DR3 (100%) was well typed, with DR17 reported by 63%. DNA typing confirmed the presence of DRB1*0301 (*030101) (64%).

The probable haplotypes were DRB1*0301-DRB3*0101-DQB1*0201-DQA1*0501 and DRB1*1306-DRB3*0101-DQB1*0603-DQA1*0103. As mentioned in the previous report, DRB1*1306 was found associated with the same DRB3-DQB1-DQA1 types as commonly found with other DR13 types, including DRB1*1301 and DRB1*1310.

The labs typing for DPB1 alleles were in total consensus for DPB1*0101 and DPB1*0301. DPB1*2601 and DPB1*5001 were other possible DPB1 types, offered by Merenmies and Pidwell. Instead of DPB1*0301, Charron and Tiercy noted that DPB1*9201 was possible.
This month’s study featured 4 allosera (sera 953-956) reactive to B7 and cross-reactive specificities, including B27, B42, B81, B22 and B40 specificities. All 4 sera were determined to be strongly positive to B7 by all screening methods.

Sera 953 and 954 were determined to be positive to B7, B27, B42, B81, and B22 specificities (B54, B55, B56) by all methods, whereas for sera 955 and 956, the reactivity to these same specificities were more varied, depending upon which method was used.

Serum 954 demonstrated additional reactivity to B40 specificities (B60, B61). This same serum sample was previously studied as sera 885 (2005) and 902 (2006).
Sera 955 and 956 were strongly reactive to only B7 by NIH. Labs using extended NIH also reported anti-B60 and -B45 reactivity. Labs using the more sensitive assays detected additional reactivity to B27, B42, B81, and B22 specificities.

Pidwell shared the following findings, after performing PCR-RSSOP on DNA extracted from the samples, saying, "HLA-A, -B, -Cw are ranked according to the quantity of antibody binding to each of the 72 HLA-A, B, Cw single antigen beads":

953: A*02, A*23, A*29; B* unsuccessful; Cw*03? Cw*05, Cw*08?

954: A*11, A*26, (plus extra reactions); B835, B*39 (plus extra rxns); Cw*03? (plus extra rxns)

955: A*02, A*30, (plus extra reactions); B*18, B*55 (plus extra rxns); Cw*04 (plus extra rxns)

956: A*11, A*23, A*24; B*1516, B*35 (plus extra reactions); Cw* unsuccessful

Suspected sensitizing antigens/alleles are highlighted and bold face type.
Extracts 417. The rare B*8102, as detected by 34%, was present in this cell. Another 32% reported B*8101/02. The B*81 variant was first detected in an exchange cell, cell 1157 (2003), from a Chinese donor. Fae et al. (2) described the variant as being very similar to B*8101 with identical sequences in exon 2 and 3, differing in exon 1 by 4 substitutions. The same donor was featured in a 2004 family study with an offspring, typed as cells 1217 and 1218, respectively. B*8102 was reported by 19% for cell 1217 and by 21% for cell 1218. However, B*8101 was misassigned by 17% and by 23%, respectively. The Chinese donor typed as cells 1157 and 1217 now serves as a reference B*8102 cell, TER-1157.

In this present typing of B*8102, no lab reported B*8101, thus indicating much improved standardization since 2004.

The second B-locus allele was B*1301 (63%).
Cw*0304 (66%) and Cw*0801 (74%) were the C-locus types.

A*1102 (46%) and A*2402 (36%) were the A-locus alleles.
The B-C loci associations in this cell were probably B*1301-Cw*0304 and B*8102-Cw*0801. B*1301-Cw*0304 is commonly found in Asians (3). The 2004 family of TER-1157 indicated that B*8102 was on the same haplotype with Cw*0801 and A*1101.

Extract 418. Although no ethnic information was available for this donor, typing results revealed alleles commonly found in Black populations, including A*7401, B*7801, B*8101, and Cw*1801.

A*7401 was detected by 29%, with another 32% assigning A*7401/02.
B*7801 (73%) was assigned by the majority.
B*8101 was reported by 32%; another 32% reported B*8101/02.
The likely associations in this cell were B*7801-Cw*1601 and B*8101-Cw*1801, found in strong linkage disequilibrium in Black donors.
**Extract 419.** This cell from a Caucasian donor was well typed as A*0201, B*5001, B*7301, Cw*0602, and Cw*1505. The probable associations in this cell were B*5001-Cw*0602 and B*7301-Cw*1505. The same B*7301-Cw*1505 was present in previous B73 donors, cells 911 (Hisp) and 1073 (Cauc), as well as in extracts 30, 90, 179, and 228, all from Caucasian donor. Only cell 1057 from an Hispanic individual differed, having Cw*1502 instead of Cw*1505.

**Extract 420.** This cell from an Hispanic donor was previously typed as cell 1161 (2003) and 1193 (2004), as noted by Moses and Dunckley. The rare B*3909 was detected by 73%. The following table shows the improved high-resolution detection rate for B*3909 over the years:

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<th>Cell</th>
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<tr>
<td>B*3909</td>
<td>48%</td>
<td>57%</td>
<td>73%</td>
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<tr>
<td>B*5002</td>
<td>93%</td>
<td>92%</td>
<td>88%</td>
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B*3909 was also typed in cells 1116 (Hisp), 1150 (Viet), 1300 (Hisp), as well as in extracts 209 (Hisp), 236, and 318 (Hisp). B*5002 was detected by 88%. B*5002 belongs to a group of variants whose serologic expression does not match the family of alleles to which its structure fits, as documented by a number of investigators (4,5,6); in this case, the serologic expression fits that of B45.

B*3909-Cw*0702 and B*5002-Cw*0602 were the probable associations in this cell.
Cell 1329. This cell from a Vietnamese donor was previously typed as cells 1254 (2005) and 1287 (2006), as correctly identified by a number of labs.

B46 (99%) and B54 (97%), variants found commonly in Asian populations, were well typed, confirmed as B*4601 (44%) and B*5401 (49%), respectively.

Two associations found in strong linkage disequilibrium between B- and C-loci, B*4601-Cw*0102 and B*5401-Cw*0102, were present in this cell.

The probable haplotypes were A*0207-B*4601-Cw*0102 (HF=0.0413) and A*1101-B*5401-Cw*0102 (HF=0.0098), common haplotypes found in U.S. Asian population (3).
**Cell 1330.** It was somewhat unexpected to find B76 (80%) in this Caucasian cell. Holdsworth commented that observed crossreactivity with anti-B12 sera indicated the presence of B76. This was confirmed with the DNA results of B*1512 (52%), with another 30% reporting B*1512/19. Tiercy said that sequencing exon 4 discriminated B*1512 from B*1519. Cell 945 (1998) from an Hispanic donor was another non-Asian B76 exchange donor, corroborated as B*1512. B*1512 was also typed in exchange cells 837 (Thai), 945 (Chin), 1024 (Asian), and 1054 (AsIndian), and extracts 67 and 171 from Thai donors. In general, B76 is predominantly found in Asian donors.

A variant of A24 was present in this cell, as commented by Holdsworth, Pidwell, and Pollack. A2403 was reported by 22% and A24 by 74%. A*2403 was assigned by 45%.

B35 was well typed, by 96%, and verified as B*3501 (30%). Abbal noted weak reactivity with anti-B35 monoclonal antibodies.

Cw3 (59%) and Cw4 (63%) were confirmed as Cw*0303 (38%) and Cw*0401 (31%), respectively.

The likely associations in this cell were B*1512-Cw*0303 and B*3501-Cw*0401. A*1101-B*3501-Cw*0401 is a commonly found haplotype found in U.S. Caucasians, with HF=0.0132 (3). The other haplotype was A*2403-B*1512-Cw*0303, which interestingly, was also found in B76 exchange cells 837 and 962. Cell 837 was from the same donor as THAI742, which serves as a reference for B*1512 and B*460101.
**Cell 1331.** This Filipino donor has been typed in the Cell Exchange a number of times, as cells 1214 (2004), 1231 (2005), and 1278 (2006), as noted by numerous labs.  

B51 was detected by 92%. Shorter or weaker than normal reactivity was noted by Abbal, Darke, Lardy, Lebeck, McCluskey, Pidwell, and Pollack. B*5106 was the high-resolution type reported by 56%. B*5106 was also typed in cells 1034 (AsIndian) and 1134 (Filip), as well as in extracts 255 (Asian), 266 (AsIndian), 267 (Filip), 304 (Filip), and 404 (Filip).

A24 was assigned by 100%. Two different A*24 alleles were present, and the following table shows the detection rates for each in the 4 typings:

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<td>31%</td>
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<td>69%</td>
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<td>37%</td>
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<td>Cell 1278</td>
<td>40%</td>
<td>2%</td>
<td>58%</td>
<td>38%</td>
<td>4%</td>
<td>19%</td>
<td>2%</td>
<td>x</td>
<td>12%</td>
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<td>Cell 1331</td>
<td>28%</td>
<td>x</td>
<td>72%</td>
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<td>10%</td>
<td>x</td>
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<td>28%</td>
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The high-resolution detection levels for both A*2407 and A*2433 have increased since 2004. However, a significant percentage of labs misassigned A*2403 (in italics) in this present retyping. We will continue to pursue improvement in the standardization of A*2433.

B38 was assigned in complete consensus, verified as B*3802 (49%). Holdsworth noted a shorter than normal reactivity pattern.

Cw7 (59%) was established as Cw*0702 (47%).

**Cw*1204 (71%)** was the second C-locus high-resolution type, in particular, Cw*120402 (15%). Cw*120402 is found in strong linkage disequilibrium with B*5106. With the exception of cell 1034, all B*5106 exchange cells were found in association with Cw*120402. Cell 1034 had the unusual B*5106-Cw*1402 association.

A*2407-B*3802-Cw*0702 and Cw*2433-B*5106-Cw*120402 were the haplotypes in this donor, confirmed by in-house family study typings.
**Cell 1332.** This cell from a Black donor was well typed as A29, A33, B44, B70 (B71), Cw3 (Cw10), and Cw7. The high-resolution typing was A*2902, A*3301, B*4403, B*1510, Cw*0304, Cw*0706.

B71 was assigned by 39%, with another 55% assigning B70. Cw7 was assigned by 59% and Cw*0706 was reported by 39%. Cw*0706 was previously typed in cells 981 (AsIndian), 1006 (Filip), and 1143 (Blck/Asian). The same B*4403-Cw*0706 association was found in all these donors.

Interestingly, the previous Cw*0706 donors were typed as A*3303; however, this donor had A*3301. At low-resolution, this donor’s typing was similar to that of cell 1143 from a Black/Asian donor typed in 2002, as noted by several labs, differing only by the A33 subtypes.

The other B-C loci association in this cell was B*1510-Cw*0304.
References


**PARTICIPATING CENTERS**

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| 274 | Lo,Raymundo | *0301 | *1306 | + | + | + | + | + | + | SSP |
| 731 | Loewenthal,R | *030101 | *1306 | *0201 | *0603/14 | | | | | |
| 23 | Mah,Nelen | *0301 | + | + | + | + | + | + | + | SBT, SSO, P=SSP, SSP |
| 802 | Mani,Sami | *03 | *08 | + | + | + | + | + | + | SSP, SBT |
| 916 | McIntyre,Joh | *030101 | *1306 | *0101 | *0201 | *0603 | | | | |
| 794 | Meremnies,Ju | *0301 | *1306 | *0101 | *0201 | *0603 | *0103 | *0501 | *0101+ *0301/0502+ | | |
| 792 | Moore,S.Brea | *0301 | *1306 | *0101 | *0201 | *0603 | *0103 | *0501 | | |
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| 3966 | Permpikul&amp;Ve | *0301 | *1306 | + | + | + | + | + | + | SSP |
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| 3753 | Reed,Ellaine | *0301 | *1306 | + | + | + | + | + | + | SSP, SSO |
| 1160 | Rosen-Bronso | *0301 | *1306 | *01 | *0201 | *0603 | | | | |
| 793 | Ruboocki,Rona | *03 (DR17) | *13 | + | + | + | + | + | + | SSP |</p>
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- (3) Cohen-Jacobe
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Methods:
(1) - NIH std
(2) - NIH ext
(3) - Luminex/Flow
(4) - Antiglobulin
(5) - Elisa
(6) - Other

*** 55 LABORATORIES REPLIED ***

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(3) - L-Luminex, F-Flow
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*** 35 LABORATORIES REPLIED ***

Method: Luminex/Flow

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Method: Antiglobulin
### Method: Elisa

#### Serum No. 953

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**Method:** Elisa

**Next Shipment:** Jun 11 2008

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**METHOD**

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### Methods:

- (1) - NIH std
- (2) - NIH ext
- (3) - Luminex/Flow
- (4) - Antiglobulin
- (5) - Elisa
- (6) - Other

**SERUM NO. 955**

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### Method: All

*** 55 LABORATORIES REPLIED ***

--------------------------------------------- NEXT SHIPMENT: JUN 11 2008 ---------------------------------------------

Method: All
SERUM NO. 955  ***************************************************** NEXT SHIPMENT: JUN 11 2008  *****************************************************

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*** 6 LABORATORIES REPLIED ***

Method: NIH-std

SERUM NO. 956  ***************************************************** NEXT SHIPMENT: JUN 11 2008  *****************************************************

*** 6 TYPING LABS ***

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*** 6 LABORATORIES REPLIED ***

Method: NIH-std

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*** 5 TYPING LABS ***

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*** 5 LABORATORIES REPLIED ***

Method: NIH-std

SERUM NO. 956  ***************************************************** NEXT SHIPMENT: JUN 11 2008  *****************************************************

*** 5 TYPING LABS ***

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*** 5 LABORATORIES REPLIED ***

Method: NIH-ext
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|---------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Alvarez & Ca       | 28     | 50  | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Baker, Judy        | 27     | ???| + + |     | + + |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Burger, Joe        | 12     | 100| +   | +   |     | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Cantwell, Lin      | ???    | ???| +   |     | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Choo, Yoon         | 29     | 100| +   | +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Cohen, Jacque      | 25     | ???| +   |     |     | +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Darke, Christ      | ???    | ???| +   |     | +   |     | +   |     |     | +   | +   |     | +   |     |     |     |     |     |     |     |     |     |
| Dunn, Paul         | ???    | ???| +   | +   |     |     |     |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Eckels/CPMC        | 27     | ???| +   |     |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Elkalifa MD        | 25     | ???| +   | +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ellis, Thomas      | 51     | ???| +   |     | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Esteves-Kond       | 62     | 100| +   | +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Fotino, Maril      | 20     | 100| +   | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Gautreaux, Mi      | 32     | ???| +   |     | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Gideon, Ena        | 46     | 100| +   |     | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Hamdi, Nuha D      | 25     | 100| +   |     |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Han, Hoon Dr       | 35     | ???| +   | +   |     |     |     |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Harville/ACH       | ???    | ???| +   |     |     | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jaramillo, An      | 28     | ???| +   | +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Kamoun, Malek      | 24     | ???| +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Klein, Tirza       | 32     | 100| +   | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Loewenthal M       | 42     | ???| +   |     |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MacCann, Bile      | 60     | ???| +   |     |     |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| McAlack-Bala       | 36     | 100| +   |     |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Moore, S. Brea     | 15     | ???| +   |     | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ozawa, Mikki       | ???    | ???| +   |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Paik, Young K      | 27     | ???| +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Pereira, Noem      | ???    | ???| +   |     | +   | +   |     |     | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |
| Pidwell, Dan       | ???    | ???| +   |     | +   | +   |     |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Rosen-Bronso       | 25     | 100| +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Smith, MI          | 29     | ???| +   | +   | +   | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Suciu-Foca, N      | ???    | ???| +   | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Turner, E.V.       | ???    | ???| +   | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ward & Osows       | 36     | ???| +   |     | +   |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(3) – L–Luminex, F-Flow
### Serum No. 955

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**Method: Luminex/Flow**

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### Laboratories Replied

- 35 laboratories replied

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<td>(73 SAMPLES TYPED)</td>
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<td>A11 94.5%</td>
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<td>(72 SAMPLES TYPED)</td>
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<td>A29 94.2%</td>
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</table>

- **OTHERS FOUND**

**CELL 1330**

- CW7 62.5%
- CW4 63.0%
- BW6 95.9%

**CELL 1331**

- CW7 62.5%
- CW3 50.7%
- BW6 97.3%

**CELL 1332**

- CW7 62.5%
- CW3 50.7%
- BW6 97.3%

*** 75 LABORATORIES REPLIED ***

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NEXT SHIPMENT: 06/11/2008  ------------------------------------------------------------------------------------------------------------------------