

**Cell Line STR Validation Analysis**

**Case Number: 2011 CL11 1057**

| Institute | Researcher Name | Cell Line ID      | Date Received | Date Analyzed |
|-----------|-----------------|-------------------|---------------|---------------|
| ATCC      | FANG TIAN       | CL11 1057 1 (UN1) | 09/30/2011    | 10/7/2011     |

**Results:**

| Genetic Locus | ATCC or other databases | CL11 1057 1 (UN1) |
|---------------|-------------------------|-------------------|
| D8S1179       | -                       | 13,14             |
| D21S11        | -                       | 30,30             |
| D7S820        | 10,11,9                 | 9,10,11           |
| CSF1PO        | 10,11                   | 10,11             |
| D3S1358       | -                       | 15,15             |
| TH01          | 6,9,3                   | 6,9,3             |
| D13S317       | 9,12                    | 9,12              |
| D16S539       | 12,12                   | 12,12             |
| D2S1338       | -                       | 17,18             |
| D19S433       | -                       | 13,14             |
| vWA           | 15,21                   | 15,21             |
| TPOX          | 8,8                     | 8,8               |
| D18S51        | -                       | 13,14             |
| AMEL          | X,Y                     | X,Y               |
| D5S818        | 11,12,13                | 11,13             |
| FGA           | -                       | 20,23             |

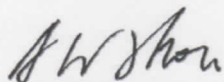
**Conclusion:**

The DNA profile obtained from item CL11 1057.1 (UN1) is compiled in Table 1.

The DNA profile obtained from item CL11 1057.1 (UN1) yielded a full DNA profile, and the AMEL locus amplified from the X and Y chromosomes. Therefore, it can be concluded that the DNA of this cell line most likely originated from a male individual. **Contamination by another human cell line was not detected. There are TWO MATCHES after searching ATCC or other databases; the cell line names are 438 (22RV1) and CRL-2505 (22Rv1). The alleles of 438 (22RV1) are shown in the table.**

BIO-SYNTHESIS, INCORPORATED and the DNA IDENTITY TESTING LABORATORY expressly disclaim any and all responsibility for the validity of this report. The collection of samples from the named cell lines was not witnessed, nor identities verified in compliance with established chain of custody guidelines. Therefore, the results of this test should not be considered legally valid.

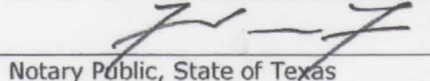
Deoxyribonucleic acid (DNA) was extracted and genetic loci were amplified from samples provided to the DNA Identity Testing Laboratory of Bio-synthesis, Inc. the conclusion has been verified as true and correct relative to the DNA profiles presented herein and the biographical data provided by the customer



Anwu Zhou, Ph.D.  
Associate Director  
10/07/2011

Sworn and Subscribed before me this

6<sup>th</sup> day of October, 2011



Notary Public, State of Texas

