Report Date: 11/07/2016

Sample (s) received Date: 11/04/2016

Name of Requester: Steven Smith Cell Line ID: VK2 P31

Biopolymer Lab Order: GCF-SS-1050

CELL LINE AUTHENTICATION REPORT

### *RESEARCH USE ONLY*

**Allele Table**

|  |  |  |
| --- | --- | --- |
| **Locus** | **VK2 P31** | **ATCC Reference**  **CRL-2616(VK2)** |
| Amelogenin | X | X |
| CSF1PO | 10,11 | 10,11 |
| D13S317 | 9,12 | 9,12 |
| D16S539 | 9 | 9 |
| D21S11 | 29,31.2 | NO DATA |
| D5S818 | 9,10 | 9,10 |
| D7S820 | 10,11 | 10,11 |
| TH01 | 7,9.3 | 7,9.3 |
| TPOX | 11 | 11 |
| vWA | 16 | 16 |

**Interpretation**

The sample provided exhibits identical genetic profiles.

Sample VK2 P31 shares 13 alleles of 13 alleles (100.0 %) with the ATCC reference.

**Explanation of Test Results**

Cell lines with ≥80% match are considered to be related; i.e., derived from a common ancestry. A cell line with an STR profile match of ≤56% is considered unrelated. A unique cell line has a STR profile that is different from another unique cell line.

The submitted sample profile is human, but not a match for any profile in the ATCC STR database.

The submitted profile is an exact match for the following ATCC human cell line(s) in the ATCC STR database (8 core loci plus Amelogenin): **CRL-2616(VK2)**

The submitted profile is similar to the following ATCC human cell line(s).

The submitted cell line is contaminated, and has tested positive for mouse marker.

STR typing was performed using the Promega Geneprint 10 System™. The kit includes 10 human specific loci for human cell line authentication. The human loci collectively provide a genetic profile with a random match probability of 1 in 2.92 × 109. Where more than one human profile is observed, alleles of the minor contributor are indicated in parentheses. . Our laboratory uses GenePrint® 5X Mouse Primer Pair Mix is designed to be used as a sensitive marker that specifically detects the presence of mouse (*Mus musculus*) DNA while simultaneously providing detection of about 1% fraction of mouse contaminant in a human cell line when using extracted DNA.