



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Form SOP-89.03

Version 13.0

Samples Received: 01Apr24

Process Description Number: WIC001

DNA Extraction Date: 02Apr24

STR Amplification Date: 03Apr24

| Sample Name | Sample #1 | Sample #2 (Reference Profile) |
|-----------------------------|-----------|----------------------------------|
| WiCell CTR No. ¹ | 94744 | 94743 |
| FGA | 20, 24 | 20, 24 |
| TPOX | 8, 11 | 8, 11 |
| D8S1179 | 12, 13 | 12, 13 |
| vWA | 15, 17 | 15, 17 |
| Amelogenin | X, Y | X, Y |
| Penta_D | 10, 13 | 10, 13 |
| CSF1PO | 12, 13 | 12, 13 |
| D16S539 | 9, 13 | 9, 13 |
| D7S820 | 8, 12 | 8, 12 |
| D13S317 | 8, 11 | 8, 11 |
| D5S818 | 9, 11 | 9, 11 |
| Penta_E | 10, 12 | 10, 12 |
| D18S51 | 17, 18 | 17, 18 |
| D21S11 | 28, 32.2 | 28, 32.2 |
| TH01 | 9.3, 9.3 | 9.3, 9.3 |
| D3S1358 | 15, 15 | 15, 15 |
| Allelic Polymorphisms | 28 | 28 |
| Comments | | |

Reference Profile for matching purposes

Process Description: WiCell works with clients to determine their specific analysis requirements. This number connects those requirements to this final report and can be used for multiple samples. Process Description can outline which reference profile a new sample submitting for testing should be compared to so WiCell may provide a percent match in the results section.

¹ CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.



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Assay Description: Short Tandem Repeat (STR) analysis is performed using the PowerPlex® 16 HS System by Promega™. Results are reported as 13 CODIS STR markers, Amelogenin for sex determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 28 allelic polymorphisms across the 15 STR loci analyzed. Samples 94744 and 94743 are a 100.00% match to each other.

Interpretation: The concentration of DNA required to achieve an acceptable STR genotype (signal/ noise) was equivalent to that required for the standard procedure (~1 ng/amplification reaction) from human genomic DNA. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human cells or a significant amount of mouse feeder layer cells.

Sensitivity: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-4%.

Deviations: No deviations occurred.

Technician 1: _____

Technician 2: _____

Quality Assurance Review: _____



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This assay was completed in compliance with the U.S. FDA Current Good Manufacturing Practice for Finished Pharmaceuticals (21 CFR part 211) and the EU Good Manufacturing Practice guidelines (EC EudraLex Volume 4) where applicable.

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Compliance Statement

