Guidelines for IdentiCell - Cell Line Authentication service

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Sample Preparation and Shipment

DNA purification

We can only accept extracted genomic DNA as sample material for IdentiCell.

A sufficient amount of cells for obtaining 20 ng/µl DNA should be used.

DNA should be isolated from cultured cells using a standard DNA extraction procedure.
At our laboratory we use the NucleoSpin® Tissue (Macherey-Nagel) system.

DNA quantitation

You need to quantify or estimate your DNA sample concentration prior to shipment as the sample will be diluted to 2 ng/µl. Please note the DNA concentration (ng/µl) and the A260/A280 ratio, if available, of your samples on the IdentiCell Submission Form.

Customers should ensure that the DNA is non-degraded prior to shipment as degraded DNA cannot be used for the STR profiling analysis. Please provide agarose gel analysis pictures with your samples, if available.

Absorbance readings at 260nm can be used to estimate DNA concentration, where 1 AU = 50µg of double-stranded DNA/ml. The Quant-iT™ PicoGreen®dsDNA quantitation assay (Invitrogen) can also be used.
If you are not using one of the above mentioned kits for DNA purification, we recommend measuring absorbance of the DNA sample at 260nm and 280nm to confirm that the DNA is sufficiently free of impurities. High-quality DNA has a typical A260/A280 ratio of 1.8. The presence of impurities in the DNA sample can cause amplification failure. Note that DNA concentration can be overestimated by spectrophotometry if the A260/A280 ratio is low.

Sample shipment

Samples should be sent at room temperature by ordinary mail.

For further technical information, please refer to the technical manual for the GenePrint® 10 system by Promega.
Find more information at identicell.eu