

Sample Carryover

Introduction

A study was conducted to demonstrate the lack of sample carryover on the Thermo Scientific NanoDrop™ 8000 spectrophotometer. The protocol included measuring 4 individual aliquots of water, followed by 4 aliquots of a high concentration DNA sample. Carryover was then assessed by the measuring of another 4 aliquots of water. The test results demonstrate that there is no significant sample carryover on the instrument measurement pedestals. The tables below display the results of the study using 3 separate measurement pedestal positions.

Table 1.
Pedestal
Position A

| Position/Replicate | Sample ID | Date | Time | ng/ul |
|--------------------|------------|-----------|----------|---------|
| A/1 | water | 9/24/2007 | 10:50 AM | 0.07 |
| A/2 | water | 9/24/2007 | 10:50 AM | -0.49 |
| A/3 | water | 9/24/2007 | 10:51 AM | 1.13 |
| A/4 | water | 9/24/2007 | 10:52 AM | 0.32 |
| A/5 | 3600 ng/ul | 9/24/2007 | 10:53 AM | 3563.43 |
| A/6 | 3600 ng/ul | 9/24/2007 | 10:54 AM | 3586.63 |
| A/7 | 3600 ng/ul | 9/24/2007 | 10:55 AM | 3576.82 |
| A/8 | 3600 ng/ul | 9/24/2007 | 10:56 AM | 3588.27 |
| A/9 | water | 9/24/2007 | 10:57 AM | 1.21 |
| A/10 | water | 9/24/2007 | 10:57 AM | 0.95 |
| A/11 | water | 9/24/2007 | 10:58 AM | 0.22 |
| A/12 | water | 9/24/2007 | 10:59 AM | 0.68 |

Table 2.
Pedestal
Position D

| Position/Replicate | Sample ID | Date | Time | ng/ul |
|--------------------|------------|-----------|----------|---------|
| D/1 | water | 9/24/2007 | 10:50 AM | 0.16 |
| D/2 | water | 9/24/2007 | 10:50 AM | 0.23 |
| D/3 | water | 9/24/2007 | 10:51 AM | -0.7 |
| D/4 | water | 9/24/2007 | 10:52 AM | 1.45 |
| D/5 | 3600 ng/ul | 9/24/2007 | 10:53 AM | 3563.59 |
| D/6 | 3600 ng/ul | 9/24/2007 | 10:54 AM | 3575.57 |
| D/7 | 3600 ng/ul | 9/24/2007 | 10:55 AM | 3566.87 |
| D/8 | 3600 ng/ul | 9/24/2007 | 10:56 AM | 3605.73 |
| D/9 | water | 9/24/2007 | 10:57 AM | 0.38 |
| D/10 | water | 9/24/2007 | 10:57 AM | 0.87 |
| D/11 | water | 9/24/2007 | 10:58 AM | 0.79 |
| D/12 | water | 9/24/2007 | 10:59 AM | 0.05 |

Table 2.
Pedestal
Position H

| Position/Replicate | Sample ID | Date | Time | ng/ul |
|--------------------|------------|-----------|----------|---------|
| H/1 | water | 9/24/2007 | 10:50 AM | -0.33 |
| H/2 | water | 9/24/2007 | 10:50 AM | -0.6 |
| H/3 | water | 9/24/2007 | 10:51 AM | -0.65 |
| H/4 | water | 9/24/2007 | 10:52 AM | -0.78 |
| H/5 | 3600 ng/ul | 9/24/2007 | 10:53 AM | 3554.63 |
| H/6 | 3600 ng/ul | 9/24/2007 | 10:54 AM | 3565.35 |
| H/7 | 3600 ng/ul | 9/24/2007 | 10:55 AM | 3568.85 |
| H/8 | 3600 ng/ul | 9/24/2007 | 10:56 AM | 3590.1 |
| H/9 | water | 9/24/2007 | 10:57 AM | -0.04 |
| H/10 | water | 9/24/2007 | 10:57 AM | 0.62 |
| H/11 | water | 9/24/2007 | 10:58 AM | -0.53 |
| H/12 | water | 9/24/2007 | 10:59 AM | -0.7 |

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