



TITLE: CERTIFICATE OF ANALYSIS – ADAPTOR PLATE A4 (i73-96)

REF: N9

STATUS: CURRENT

DOCUMENT No. COA-01-N9

ISSUED: 2018-07-06

VERSION: 1

Certificate of Analysis of Adaptor Plate A4 (i73-96)

| | |
|---------------------|---------------------------|
| Product name | Adaptor Plate A4 (i73-96) |
| Reference number | N9 |
| LOT number | N9/006 |
| Date of Manufacture | 2018-02-21 |
| Expiration date | 2019-07-16 |

1 96 well Indexed Adaptor Plate

The 96 well indexed adaptor plate component contains ready to use indexed NGS adaptors (double stranded DNA oligonucleotides) in 5 µL solution for generating individual NGS libraries. The 96 well indexed adaptor plate contains sufficient kind of indexed adaptors for 24 individual NGS library generation and for downstream sample identification.

| Product type | Associated Reagent | REF # | Rxns | Vol/well | # Plates |
|--------------|---------------------------|-------|------|----------|----------|
| Holotype | Adaptor Plate A4 (i73-96) | N9 | 24 | 5 µL | 1 |

2 Summary of Quality Control testing

| Evaluation/Assessment | Pass/Fail |
|--|-----------|
| Physical inspection | Pass |
| Assessment of adaptors for index sequence and location | Pass |
| Assessment of adaptors for cross-contamination | Pass |
| Assessment of adapter variability | Pass |

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2.1 Physical inspection

All contents of the kit are inspected for proper components, volumes and labeling. The condition of all plates were inspected after packaging and shipping.

2.1.1 Results of physical inspection

| Criteria for acceptability | Pass/Fail |
|---|-----------|
| Expected volumes in all wells | Pass |
| Proper labeling | Pass |
| Proper shipping condition (on dry ice) | Pass |
| Reagents clear and not discolored | Pass |
| Proper plate sealing | Pass |

2.2 Indexed Adapter Plate quality control testing

2.2.1 Assessment of adapters for index sequence and location

The test is performed on a specific sample panel developed for this purpose. 24 different libraries are prepared where no library possesses the same allele(s). Each sample has a unique HLA allele and the placement of the sample on the plate is known, the location of the indexed adapter can be confirmed with genotyping each of the samples.

| Criteria for acceptability | Pass/Fail |
|--|-----------|
| Index sequence and location: Pass: All allele calls match the expected reference genotyping. Fail: At least one allele call does not match the expected genotyping. | Pass |

2.2.2 Assessment of indexed adapters for cross-contamination

The test is performed on a specific sample panel developed for this purpose. 24 different libraries are prepared where no library possesses the same allele(s). Index cross- contamination is assessed by looking for unexpected allele calls. Cross contamination would be evident through the detection of unexpected alleles and the contaminating adaptors identified.

2.2.2.1 Results of indexed adapters cross-contamination

| Criteria for acceptability | Pass/Fail |
|---|-----------|
| A sufficient amount of reads is available: Pass: For every tested index, at least 4000 read pairs were mappable to the expected allele. Fail: For at least one tested index, less than 4000 read pairs were mappable to the expected allele. | Pass |
| A sufficient amount of reads is only available for the tested indices: Pass: More than 1000 read pairs is only available for the tested indices. Fail: More than 1000 read pairs is available for at least on not tested index. | Pass |
| Contamination with a single index is not observed: Pass: No index was identified with more than 1% contamination from another single index. The criterion must be true for all different contamination % estimates. Fail: At least one index was found with more than 1% contamination from another index. | Pass |



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REF: N9


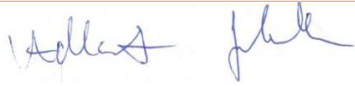
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Authorization for release

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|-----------|---|-----------|--------------|
| Name | Zoltán Simon - Omixon | Function | COO |
| Signature |  | Sign date | 2018.07.06 |
| Name | Gabriella Adlovits - Omixon | Function | RAQS Manager |
| Signature |  | Sign date | 2018.07.06 |