**CERTIFICATE OF ANALYSIS**

**CERTIFICATE No:**

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| **PRODUCT** | ASAQ WINTHROPÃ‚Â® 25 mg/67.5 mg TABLETS | | REF. NO: NDQD201508231 |
| **DATE RECEIVED:** 24.08.2015 | **LABEL CLAIM:** | Fixed dose combination: Artesunate 25.00 mg, Amodiaquine base 67.50 mg ( as hydrochloride 88.16 mg) and Excipients q.s.p. | |
| **BATCH NO.:** 3MA025 | **PRESENTATION:** | Off white and yellow coloured bi-layered, circular shaped tablets, single scored and embossed 'A' and 'S' on either side of the score on the off white face and embossed '25' on the other face, packed in an aluminium blister strip of 3 tablets and 25 such strips in a unit box. | |
| **MGF. DATE:** Aug. 2013 | **MANUFACTURER:** | MAPHAR. | |
| **EXP. DATE:**  Jul. 2016 | **ADDRESS:** | Km 10, route cotiere 111, Zenata Ain Sebaa - Casablanca, MOROCCO. | |
| **CLIENT REF NO:** | **CLIENT:** | Pharmacy Board Of Sierra Leone, Central Medical Stores, Free Town, SIERRA LEONE | |
| PVG/GFM/Ken-pub/20/3/15 | **TEST(S) REQUESTED:** | Uniformity of Weight, Uniformity of Content, Identification, Dissolution, Assay | |

**RESULTS**

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| **TEST** | **METHOD** | **COMPEDIA** | **SPECIFICATION** | **DETERMINED** | **REMARKS** |
| **Uniformity of Weight** | Weight | BP 2016 Vol. IV App XII C | < 2 tablets deviate by more than 7.5% from mean tablet weight | None Deviates | **COMPLIES** |
| **Identification** | HPLC | Adopted In - house Method | RT of the component Peaks in the assay sample preparation corresponds to those in the standard preparation | Super-imposable peak at RT 2.0 & 8.2 -/+ 10% min. present in both the assay sample and standard preparations | **COMPLIES** |
| **Dissolution** | HPLC | Adopted In - house Method | No Tablet Less than 80% [n=6] | Amodiaquine HCl 99.3% (RSD=0.6%, n=6) | **COMPLIES:COMPLIES** |
| **Dissolution** | HPLC | Adopted In - house Method | No Tablet Less than 80% [n=6] | Artesunate 102.4%, (RSD=0.3%, n=6) | **COMPLIES:COMPLIES** |
| **Assay** | HPLC | Adopted In - house Method | 90.0 - 110.0% | Amodiaquine HCl 100.3% (RSD=1.8%, n=6) | **COMPLIES:COMPLIES** |
| **Assay** | HPLC | Adopted In - house Method | 90.0 - 110.0% | Artesunate 100.1% (RSD=1.1%, n=9) | **COMPLIES:COMPLIES** |

**CONCLUSION:** The product complies with the specifications for the tests performed.

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| ANALYST: | MR. M. SANGALE |  | DATE:06-01-2016 |
| ANALYST: | DR. G. WANG’ANG’A |  | DATE:06-01-2016 |
| ANALYST: | ERNEST MBAE |  | DATE:01-11-2016 |
| DIRECTOR: | HEZEKIAH CHEPKWONY |  | DATE:02-25-2016 |