**CERTIFICATE OF ANALYSIS**

**CERTIFICATE No:** CAN/2015-16/699

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| **PRODUCT** | CHX SOLUTION 7.1%w/w | | REF. NO: NDQD201509245 |
| **DATE RECEIVED:** 01.09.2015 | **LABEL CLAIM:** | Chlorhexidine Digluconate USP 7.1%w/w equivalent to Chlorhexidine 4% w/w | |
| **BATCH NO.:** T04160B | **PRESENTATION:** | Clear colourless solution for umbilical cord use, contained in a 10 mL white plastic dropper bottle with a tamper proof seal, and 50 such droppers packed in a box. | |
| **MGF. DATE:** May 2015 | **MANUFACTURER:** | UNIVERSAL Corporation Ltd. | |
| **EXP. DATE:**  Apr. 2017 | **ADDRESS:** | Club Road, Plot No. 13777, P.O. Box 1748 - 00902, Kikuyu, KENYA. | |
| **CLIENT REF NO:** | **CLIENT:** | UNIVERSAL CORPORATION LTD. P.O BOX 1748 -00902 | |
|  | **TEST(S) REQUESTED:** | Sterility, Microbial Load, Identification, Assay, Acidity/Alkalinity | |

**RESULTS**

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| **TEST** | **METHOD** | **COMPEDIA** | **SPECIFICATION** | **DETERMINED** | **REMARKS** |
| **Sterility** | Plate Count | BP 2016 Vol. V App. XVI B | Total Aerobic Microbial Count (TAMC) NMT 200 CFU/mL Total Combined Yeast/Moulds Count NMT 20 CFU/mL | <10 CFU/mL <10 CFU/mL | **COMPLIES** |
| **Identification** | HPLC | USP 38 NF 33 Page 2763 | RT of the major peak in the assay sample preparation corresponds to that in the assay standard preparation | Super-imposable peak at RT 6.5 +/- 10% min. present in both the assay sample and standard preparations. | **COMPLIES** |
| **Assay** | HPLC | USP 38 NF 33 Page 2763 | 90.0% - 110.0% | 106.2% (RSD=0.3%; n=9) | **COMPLIES** |
| **Acidity/Alkalinity** | pH | USP 38 NF 33 Page 2763 | 5.0 - 7.0 | 6.3 | **COMPLIES** |

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

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| ANALYST: | MR. F. NAULA |  | DATE:28-09-2016 |
| ANALYST: | MR. M. SANGALE |  | DATE:19-05-2016 |
| ANALYST: | DR. N. MWAURA |  | DATE:08-06-2016 |
| ANALYST: | EMMANUEL TANUI |  | DATE:06-09-2016 |
| DIRECTOR: | HEZEKIAH CHEPKWONY |  | DATE:06-09-2016 |