**CERTIFICATE OF ANALYSIS**

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

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| **PRODUCT** | MUCOLYN PAEDIATRIC SYRUP | | REF. NO: NDQD201502052 |
| **DATE RECEIVED:** 03.02.2015 | **LABEL CLAIM:** | Each 5 mL (teaspoonful) contains Dextromethorphan Hydrobromide BP 5 mg, Chlorpheniramine Maleate BP 2 mg, Ammonium Chloride BP 50 mg, Pseudoephedrine Hydrochloride BP 10 mg. | |
| **BATCH NO.:** 140028 | **PRESENTATION:** | Pink coloured syrup for oral administration, contained in a 100 mL amber coloured glass bottle with a metallic cap in a unit box. | |
| **MGF. DATE:** Dec. 2014 | **MANUFACTURER:** | SHELYS Pharmaceuticals Ltd. | |
| **EXP. DATE:** Nov. 2016 | **ADDRESS:** | Plot No. 696, New Bagamayo Road, Mwenge, P.O. Box 32781, Dar Es Salaam, TANZANIA. | |
| **CLIENT REF NO:** | **CLIENT:** | Beta Healthcare International Ltd Box 42569-00100, Nairobi | |
| - | **TEST(S) REQUESTED:** | pH, Microbial Load, Identification, Assay | |

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| **TEST** | **METHOD** | **COMPEDIA** | **SPECIFICATION** | **DETERMINED** | **REMARKS** |
| **pH** | pH | Manufacturer's In - House Method | 5.0 - 6.5 | 6.2 | **COMPLIES** |
| **Microbial Load** | Plate Count | In - House Method | Total Aerobic Microbial Count(TAMC) NMT 200 CFU/mL | Total Aerobic Microbial Count(TAMC) < 200 CFU/mL | **COMPLIES** |
| **Identification** | Plate Count | In - House Method | Total Combined Yeasts/Moulds Count(TYMC) NMT 20 CFU/mL | Total Combined Yeasts/Moulds Count(TYMC) < 20 CFU/mL | **COMPLIES:COMPLIES** |
| **Assay** | UV:Titration:Titrati | Manufacturer's In - House Method | 1.9 - 2.1 mg:9.5 - 10.5 mg:47.5 - 55.0 mg | Chlorpheniramine 2.0 mg, (RSD=1.0%,n=6) | **COMPLIES:COMPLIES:COMPLIES:** |
| **Assay** | UV:Titration:Titrati | Manufacturer's In - House Method | 1.9 - 2.1 mg:9.5 - 10.5 mg:47.5 - 55.0 mg | Pseudoephedrine Hydrochloride 10.1 mg, (RSD=0.6%,n=3) | **COMPLIES:COMPLIES:COMPLIES:** |
| **Assay** | UV:Titration:Titrati | Manufacturer's In - House Method | 1.9 - 2.1 mg:9.5 - 10.5 mg:47.5 - 55.0 mg | Ammonium Chloride 50.9 mg, (RSD=0.3%,n=3) | **COMPLIES:COMPLIES:COMPLIES:** |

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

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| ANALYST: | MR. F. NAULA |  | DATE:23-03-2015 |
| ANALYST: | DR. J. CHEPCHUMBA |  | DATE:15-09-2015 |
| REVIEWER: | DR. E. MBAE |  | DATE:09-10-2015 |
| ANALYST: | SERAH MUTERU |  | DATE:10-13-2015 |
| DIRECTOR: | HEZEKIAH CHEPKWONY |  | DATE:10-14-2015 |