

# SHANDONG KUNDA BIOTECHNOLOGY COMPANY LIMITED

YISHUI ECONOMIC DEVELOPMENT ZONE , YISHUI COUNTY, SHANDONG PROVINCE, CHINA

## Certificate of Analysis

Product name: DIETHYLAMINE

CAS#: 109-89-7

DATE OF ANALYZED: Aug 10, 2022

DATE OF Manufacturing: Aug. 10, 2022

DATE OF Expiry: Aug. 09, 2024

Lot No.: 20220810001

Quantity

: 22400kgs

Standard

: GB/T 23963-2009

| TEST ITEM                     | GRADE                               | TEST METHOD                                    | ANALYSIS RESULT                     |
|-------------------------------|-------------------------------------|--|-------------------------------------|
| <u>Color, Hazen(Co-Pt)</u>    | <u>TOP GRADE</u><br><u>≤15</u>      | <u>Liquid chemical determination of colour</u> | <u>≤10</u>                          |
| <u>APPEARANCE</u>             | <u>Colorless transparent liquid</u> | <u>visual method</u>                           | <u>Colorless transparent liquid</u> |
| <u>PURITY, %(m/m)</u>         | <u>≥99.5</u>                        | GC   | <u>99.89</u>                        |
| <u>Monoethylamine, %(m/m)</u> | <u>≤0.02</u>                        | GC   | <u>0.022</u>                        |
| <u>Triethylamine, %(m/m)</u>  | <u>≤0.1</u>                         | GC   | <u>0</u>                            |
| <u>Ethanol, %(m/m)</u>        | <u>≤0.1</u>                         | GC   | <u>0</u>                            |
| <u>Water, %(m/m)</u>          | <u>≤0.1</u>                         | Carle Fischer determination                    | <u>0.032</u>                        |

CONCLUSIONS

: COMPLIES WITH TOP GRADE

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Signature

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