

## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: April 26, 2024

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|                    |                  |                               |
|--------------------|------------------|-------------------------------|
| Loading Note No    | : By Mail        | APPROVED BY: L. AL-NUMAYRI QC |
| JOB NUMBER         | : QC/JN/24/00192 |                               |
| CERTIFICATE NUMBER | : QC240426-03    |                               |

### CUSTOMER DETAILS

Name : Noor Al-Hilal  
Address : North Rumiala, Basra

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Coulometer Karl Fischer  
Manufacturer : Metrohm  
Model : 899  
Location : Noor Al-Hilal Lab  
Serial Number : 1899001024027  
Type : Digital  
Range : 10 - 10000 ppm  
Readability : 0.1 ppm  
Accuracy : 1 %  
As found : In Tolerance  
Calibrated By : Asjad Rafiq  
Calibration Date : April 26, 2024  
**Calibration Due : 25 April 2025**



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 1°C Humidity : 40.0 ± 5 % RH Atm. Pressure : 1013.0 ± 10 hPa

### CALIBRATION METHOD

Above mentioned instrument has been calibrated according to ASTM D6304

Calibration of above mentioned instrument has performed against Reference Standard Water Content Sample. The deviations of the measurements obtained from UUC with respect to reference standards are determined to obtain the error.

### REFERENCE EQUIPMENT USED :

| DESCRIPTION    | MAKE            | LOT NO. | EXPIRY DATE |
|----------------|-----------------|---------|-------------|
| Water Standard | Honeywell Fluka | 13170   | 20-Nov-25   |

### CALIBRATION TEST RESULTS

| Readings on UUC | Readings on Ref. Standard | Error | Uncertainty (95 % C.L.) |
|-----------------|---------------------------|-------|-------------------------|
| ppm             | ppm                       | ppm   | ± ppm                   |
| 1004.3          | 1000.0                    | 4.30  | 0.02                    |
| 1005.6          | 1000.0                    | 5.60  | 0.02                    |
| 1007.4          | 1000.0                    | 7.40  | 0.02                    |
|                 |                           |       |                         |
|                 |                           |       |                         |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with international practice.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) : ☒ The results are as found (no adjustment done).  
☐ The results are post adjustment.



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