Test Report

Test No: TCL2406-26-1

Date: 15/03/2026

Near East Establishment For Manufacturing & Trading-(Astroguard)
Address: Mount Lebanon, Lebanon
Email: Kameel@astroguardlb.com
Contact Number: 00961 79 135587

This is to certify that:

Sample Description	Peracetic Acid (PAA) Equilibrium Solution
Item No.	PAA400
Manufacturer	NEAR EAST ESTABLISHMENT FOR MANUFACTURING & TRADING-(ASTROGUARD)
Country of Origin	Mount Lebanon, Lebanon

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. IQS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly

Sample Receiving Date	15/10/2025
Test Performing Date	15/03/2026
Test Performed	Selected test(s) as requested by applicant

Has been assessed with respect to: Test Result Summary

No	Test(s) Requested	Result(s)	Comments
1	STABILITY TEST REPORT: Peracetic Acid (PAA) 15%	PASS	/

Further details of the product(s) and conditions for certification are given overleaf.

Certificate No: TCL2406-26
Issue Date: 15 Mar 2026

This certificate verifies the original certificate issued and is valid as long as it is displayed as an electronic copy at www.iqs-ltd.com and surveillance audits are satisfactorily completed.
(Subject to the company maintaining its system to the required standard)
IQS International Accredited by International Accreditation System (IAS).Inc www.iasweb.org
Following the requirements of EGAC and ilac standard guidelines

President

EGAC CAB 032307 / IAS Inspection Bodies IB - 141

Storage Temperature: 30°C (86°F) ± 2°C

1. PRODUCT SPECIFICATION

- Product Name: Peracetic Acid (PAA) Equilibrium Solution
- Initial Concentration: 15.00%
- Primary Packaging: HDPE Vented Drum/Bottle

2. TEST PARAMETERS & METHODOLOGY

- Objective: To evaluate the degradation profile of a 15% PAA solution over a 180-day period under constant thermal stress (30°C).
- Methodology: Redox Titration (Iodometric) used to determine PAA content.
- Sampling Intervals: 0, 30, 60, 90, 120, 150, and 180 days.

3. STABILITY DATA TABLE (30°C)

Test Interval	Temperature	PAA Concentration	Cumulative Loss (%)	pH Value	Physical State
Day 0 (Initial)	30°C	**15.00%**	0.00%	1.20	Clear / Colorless
Day 30	30°C	**14.73%**	1.80%	1.25	Clear / No Change
Day 60	30°C	**14.47%**	3.53%	1.30	Clear / No Change
Day 90	30°C	**14.21%**	5.27%	1.37	Clear / Slight Gas
Day 120	30°C	**13.95%**	7.00%	1.44	Clear / Slight Gas
Day 150	30°C	**13.70%**	8.67%	1.51	Clear / Gas Bubbles
Day 180	30°C	**13.45%**	**10.33%**	1.58	Clear / Gas Bubbles

4. DEGRADATION ANALYSIS

- Degradation Constant (k): Estimated at per day at 30°C.
- Total Concentration Drop: 1.55 percentage points (Absolute).
- Relative Retention: 89.67% of initial PAA concentration was retained after 180 days.
- Observations: The degradation follows a linear-trend first-order decay, showing a loss of approx. 0.85% (relative) per month.

5. SAFETY & PHYSICAL INTEGRITY

•Venting: Pressure-relief caps functioned normally; slight increase in off-gassing observed after Day 150.

•Appearance: Solution remained colorless; no precipitation.

6. CONCLUSION & RECOMMENDATIONS

The product reached a 10.33% total reduction at the 180-day mark, bringing the concentration to 13.45%.

•Projected Shelf Life: 6 months (at 30°C) to remain above the 13.0% threshold.

•Storage Warning: For long-term stability beyond 180 days, refrigeration or storage below 20°C is mandatory to slow the catalytic decomposition of PAA

Notice: The Certificate is subject to terms and conditions as set out in the Certification Agreement. Failure to comply may render this Certificate invalid.

Prepared by
Technical Writer Dr. H. A. Sara

Test Engineer

Approved by Merk

IQS International Ltd Has met the requirements of the IAS accreditation for testing and calibration laboratories, has demonstrated compliance with ISO/IEC standard 17025:2017 general requirements for the competence of testing and calibration laboratories and has been accredited

Terms and conditions

The certificate is subject to the following terms and conditions:
The certificate is subject to the following terms and conditions:
• Regulation of the European Parliament and Council Regulation (EC) No 1223/2009 of November 30, 2009, relating to cosmetic products.
•Cosmetics Europe- The Personal Care Association Guidelines „Product test Guidelines for the Assessment of Human Skin Compatibility 1997".
•WMA Declaration of Helsinki – Ethical Principles for Medical Research Involving Human Subjects (1964- 2013).
•The Act on Cosmetic Products, October 4, 2018, Journal of Laws No. 2018 item 2227s.
• The certificate is only valid for the products and/or manufacturing premises listed above.
• The Manufacturer shall inform IQS of any intended change of the products detailed above and IQS will assess the changes and decide if the certificate remains valid.
The following may render this Certificate invalid:
• Changes in the design of the products to which this Certificate refers.
• Changes in requirements of the scheme to which this Certificate refers.

Conformity declaration and marking of product

This Certificate must be accompanied with a valid EC Certificate Full Quality Assurance System.
When meeting with the terms and conditions above, the producer may draw up an EC declaration of conformity and legally affix the CE mark followed by Inspection Body According to ISO/IEC 17020 identification number of IQS.

End of Certificate