

Magdy Tarek Mowafy

Nasr City, Cairo, Egypt | 6-Nov-2001.
(+20) 01011773461 | magdytarek171@gmail.com.
[linkedin.com/in/magdy-tarek-62286b210](https://www.linkedin.com/in/magdy-tarek-62286b210)

Objective

Passionate and results-driven chemist with a postgraduate diploma in Biochemistry and Physiology, equipped with strong laboratory skills and a solid foundation in cosmetic science. Experienced in analytical testing, raw material evaluation, diesel oil analysis, and scientific research. Eager to apply my academic background, hands-on laboratory training, and passion for formulation, product development, and petroleum testing within a growth-oriented and innovative work environment.

Education

- **University of Al-Azhar – B.Sc. in Chemistry and Zoology (2019 – 2023)**
- **Grade: Very good.**
- **University of Suez Canal, Diploma of Biochemistry and Physiology (2024).**

Professional Experience

- **Analytical Chemist – SESCO trans (Used Diesel Oil Analysis Lab)**
Apr 2024 – Present | Damietta, Egypt
 - Performed analysis of used diesel oils for contamination, wear metals, oxidation, and additive depletion.
 - Operated petroleum analysis instruments: RDE-AES, FTIR, Kinematic Viscometer, TBN/TAN Titrator, Particle Counter.
 - Conducted oil filtration process validation and QC checks.
 - Prepared technical reports in compliance with ASTM & ISO standards.
- **QC Chemist – UniPharma (Raw Material Lab)**
Feb 2024 – Apr 2024 | Cairo, Egypt
 - Analyzed raw pharmaceutical materials per USP/BP pharmacopeia.
 - Performed Karl Fischer titration, wet chemistry, ID testing, and routine QC documentation.
 - Ensured GMP compliance and maintained accurate laboratory records.
- **R&D Chemist – Citry (Personal Care Formulations)**
2022 – 2024 | Cairo, Egypt
 - Developed and optimized eco-friendly formulations for liquid soaps and hand wash, ensuring stability and performance.
 - Selected raw materials and adjusted formulations for cost and skin compatibility.
 - Focused on ingredient selection, product stability, and sensory performance.
 - Performed viscosity, pH, and microbial load tests on ingredients and final formulations.
 - Ensured compliance with industry standards through quality control assessments.
- **Research Assistant – Mansoura University (Material Science Lab)**
2022 – 2023 | Mansoura, Egypt
 - Conducted experiments and data analysis in material science.
 - Collaborated with a team of researchers to publish findings in peer-reviewed journals.
 - Performed data analysis, lab experiments, and report writing for scientific publications.

- **Internships**

- **Egyptian Petroleum Research Institute (EPRI)** – Petroleum product analysis, chromatography, QC methods (2022).
- **Egyptian Atomic Energy Authority** – Radiation chemistry, nuclear analysis, safety procedures (2022).
- **National Research Center (Stem Cells Lab)** – Biochemical & molecular biology research (2022).

Publications

Mowafy, M. T., et al. (2024). Unlocking the potential: A specific focus on vesicular stomatitis virus as a promising oncolytic and immunomodulatory agent in cancer therapy. Discover Medicine, 1(1), 63.<https://doi.org/10.1007/s44337-024-00082-y>.

Skills

- **Analytical Instruments & Petroleum Testing**
 - FTIR Spectroscopy | RDE-AES | Kinematic Viscometer | TBN/TAN Titration | Particle Counter | Oil Filtration Systems.
- **QC Pharmaceutical Testing**
 - Wet Chemistry | USP/BP Pharmacopeia | GMP | ASTM.
- **Research & Development**
 - Formulation Development | Stability & Performance Testing | Scale-up | Troubleshooting | Product Optimization.
- **General Laboratory Skills**
 - Scientific Documentation | Data Analysis | Technical Reporting | Calibration & Validation.
- **Software**
 - Microsoft Office Suite (Word, Excel, PowerPoint).
- **Soft Skills**
 - Accuracy & Attention to Detail | Problem-Solving | Adaptability | Team Collaboration | Technical Communication.

Languages

- Arabic (Native).
- English (Very Good).