ABOUT US

TuAH is an Industrial Research Laboratory located at the Faculty of Applied Sciences, Universiti Teknologi MARA. We collaborate closely with BioFluid Sdn Bhd to develop cutting-edge products with transparent information on how they work to address contemporary health challenges.

TuAH Investigators are devoted and passionate about helping other parties improve their product quality. We offer a range of services and tests to everyone. Our areas of expertise extend far beyond formulation development and toxicity studies; we possess the capability to predict molecular interactions through advanced computational platforms. Expect a dynamic research ecosystem where innovation thrives and transformative ideas come to life with us.

Giving the best service with knowledge is TuAH promise!

RESEARCH CREATES KNOWLEDGE AND HOPES

CONTACT US

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WHY CHOOSE US

Our integrated services offer a harmonious blend of scientific rigor, aesthetic brilliance, and formal excellence. We invite you to join us on this extraordinary journey, where beauty meets science and excellence becomes a standard.

TuAH

Industrial Research Lab
with Bio Fluid Sdn Bhd

Microbiology Analysis

Antimicrobial testing service helps to discover new drugs or alternative agents for the treatment of infectious diseases. Our complete range of antimicrobials offers significant benefits in screening new compounds, identifying effective treatments and determining appropriate dosages.

The services encompass:

- Disk Diffusion Assay (DDA)
- Minimal Inhibitory Concentration (MIC)
- Minimal Bactericidal Concentration (MBC)
- Antibiotic Susceptibility Test (AST)

In-Vitro Bioassays

In-vitro bioassays are instrumental in assessing the efficacy of a substance on living cells or tissues. Our team of experts, coupled with cutting-edge technologies, offers comprehensive services aimed at enhancing our understanding of biological mechanisms, advancing drug development, conducting disease research and performing mechanistic studies. Our range of services encompasses :

- Phytochemical Quantification
  (Total Phenolic Content, Total Flavonoid Content)
- Antioxidant Assays (DPPH, FRAP Assay)
- Enzymatic Assays (Alpha-Amylase Inhibition, Alpha-Glucosidase Inhibition)
- Anti-Cholesterol Assay

Toxicity & Histology

Toxicological studies involving animal models aid in determining the safety profiles of product candidates. Combining safety assessment with histological analysis using standardized laboratory procedures provides important insights into the effects of substances or agents on tissues and organs. Our comprehensive suite of services includes :

Oral Toxicity
- Acute Oral Toxicity Study
- Repeated Dose 28-Day Oral Toxicity Study
- Repeated Dose 90-Day Oral Toxicity Study

Dermal Toxicity
- Acute Dermal Toxicity Study
- Repeated Dose 28-Day Dermal Toxicity Study
- Repeated Dose 90-Day Dermal Toxicity Study

Histology
- Tissue Processing /Embedding/Sectioning
- “Hematoxylin and Eosin” Staining
- Microscopic Examination

Analytical Testing

Qualitative and Quantitative Analysis

Our state-of-the-art HPLC system, combined with the ACQUITY QDa mass detector, is a formidable instrument that excels in delivering exceptional mass accuracy, resolution, and speed during intricate experiments. Its scientific prowess aids in the precise screening of targeted compounds of interest. This versatile technology accomplish for :

- Profiling, identifying and quantifying natural products (e.g., plant extracts) and biofluids (eg., serum, plasma, and urine).

Computational Analysis

Explore and anticipate potential medicinal compounds sourced from nature. Leveraging our proficiency in molecular docking, we employ virtual screenings on extensive chemical libraries to uncover promising drug candidates. TuAH provides invaluable insights into binding modes, affinities, and specific interactions between ligands and target proteins, facilitating the development of customized ligands tailored to specific applications.