

Ana Shanghai (Test)



Welcome to ANA Lab Page, please log in to get more info

Analytical science and measurement technology are important means of revealing principles and solve problems, which are compass of R&I work. We start from innovation, take the problem as the core, use various analytical methods and molecular simulation technology to study microscopic mechanisms and product efficacy, overcome challenges and make breakthrough that arises at each stage of the entire product life cycle, to explore the scientific world behind the brand.

Shanghai Analytical Laboratory delivers high-quality win-win solutions to customers.

We service to the whole value chain by our experts, from corp labs and GBU labs to CTD and plants, as well as key customers.

Learn ANA

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Analytical Technical Capability

• Chromatography

- Quantitative & qualitative analysis for components, additives, etc.

- HS/SPE M/PY/TD-GC (FID/TCD/MS)

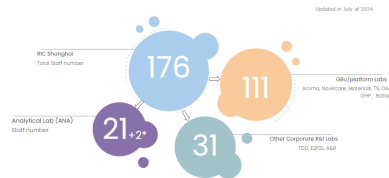
- LC-UV/ELSD/RID/MS

- GPC (aqueous/solvent phase)

- IC (anionic/cationic)

• Spectrophotometer

😊 RIC Shanghai Overview



💡 Mission of Shanghai Analytical Lab

01	Innovation project	<ul style="list-style-type: none">• New analytical method/solution development• New products/production process development• Deformulation of competitors• Material study
02	Business development	<ul style="list-style-type: none">• Market development• Technical service• Customer complaints solving
03	Plant manufacturing	<ul style="list-style-type: none">• Raw material supplier verification• QC of product and raw material• Process improvement/optimization• Troubleshooting/Close-checking
04	Intellectual property protection	<ul style="list-style-type: none">• Analytical support for patent infringement litigation

Contact Us

[ANA analysis flowchart](#)

Analytical Experts

1. Jingya Lu

Material Analysis Specialist

More than 7 years working experience in Deformulation of polymers

Specialist on SEM-EDS, Micro-IR, XRDT
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2. Fiona Zhang

Deformulation Specialist

More than 7 years working experience in

Deformulation of Surfactant Formula

Specialist on NMR and MS tech.

- Elemental analysis, study of chemical functional groups, etc.

- FTIR (ATR/transmission)

- UV/Vis

- XRD

- XRF

- ICP

- **Mass Spectrum**

- Study of molecules and their fragments.

- Chemical structure for components, monomers, oligomers, addi, etc.

- GCMS (EI/CI resource)

- LCMS (SQD/QTOF, ASAP)

- **NMR**

- Study of atoms and their chemical environment.

Chemical structure of surfactants, polymers, addi, etc.

- 300M Hz (H/C/F/P, etc.)

- 500M Hz (with Solid probe)

- **Microscope**

- Morphology of polymers, study of materials structure, elemental analysis, etc.

- SEM-EDX

- Micro-IR

 **ISO 17025 Certified** (By CNAS, together with TDD Lab)

External collaboration



Outsourcing analytical partners

- MALDI-TOF (Matrix-assisted laser desorption/ionization - Time of flight): protein characterization, glycoprotein analysis, QC applications, polymer analysis, ultra-high throughput screening and MS Imaging
- TEM (Transmission Electron Microscopes): chemical and structural characterization at the nanoscale of all types of materials
- XPS (X-ray Photoelectron Spectroscopy): characterize the surfaces of diverse materials such as inorganic compounds (minerals), semiconductors, organic compounds, and thin films and coatings on natural and engineered materials



CNAS certified projects in details:

1. DSC /RC 1 for chemicals
2. TOC for water samples
3. KFT for chemicals
4. HPLC for catechol

- Solid phase NMR: characterizing atomic level structure in solid materials e.g. powders, single crystals and amorphous
- High Temperature-GPC: measures molecular weight and MW distribution for polymers at elevated temperatures (up to 220)
- Industrial CT(Computed Tomography) Scan: flaw detection, failure analysis, metrology, assembly analysis and reverse engineering for materials

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