Biesterfeld

Competence in Solutions



Technical & Application Services – Personal Care

Biesterfeld Laboratory Services

The Lab and Innovation Centre is where we work on the products and solutions of tomorrow.

- Development of customer-specific solutions
- Creation of innovative, marketable formulations with our broad portfolio of raw materials
- Product screening of new materials from our suppliers
- Comparative tests





Biesterfeld
Lab and Innovation Centre

Lab & Innovation Centre

In our Lab and Innovation Centre in Hamburg we have the possibility to support the development of tailored solutions for and together with our customers.

The Lab allows us to engage intensively with product research and application tests, and it serves as a fully developed training centre.

For more information please contact
application-laboratories@biesterfeld.com

Set up

- Fully dedicated and equipped personal care laboratory
- Customer and supplier inhouse seminars
- Cooperation with external lab partners
- Supervision of bachelor/master theses

Service Offer

- Development of Biesterfeld owned formulations and production of sample kits for trade shows (Global, Asia, Latam)
  - We aim to develop robust formulations to meet high quality standards.
- Therefore, a wide range of methods are applied such as temperature-dependend stability, internal sensory evaluation, viscosity measurement, wetting capabilities, foam behaviour and further more (see list below)
  - A broad range of beauty care formulations is offered (hair care, skin care, body wash, colour etc.)
  - A selection of specific raw materials, e.g. bio-based, to develop modern and robust formulations is being made
  - All formulations aim to achieve a high natural origin content which is calculated according to ISO 16128
- We offer direct customer and supplier support, e.g. formulation optimisation, adjustment, raw material exchanges to meet their targets and solve formulation problems
- Training sessions take place theoretically in our conference area and can be proceeded in practical sessions in the laboratory
- Cooperation with an external partner for microbiological tests acc. to ISO 11930 and safety assessments

Test methods

Method	Equipment	Comment
Mixing	IKA Ultraturrax T25	Homogenisation of emulsions S 25 N - 18 G dispersing tool, volumes 10 - 1500 ml suitable for solvents
	IKA Ultraturrax T50	S 50 N - G 45 G dispersing tool, volumes 0.5 - 20 liters suitable for solvents
Viscosity	Brookfield DV-1 viscosimeter RV-Spindle set	Relative measurements (no absolute measurements possible due to variable test specimen)
	Brookfield DV-1 viscosimeter T-Spindle Set & SSA (Small Sample Adapter)	For limited sample volume
Stability tests	Hettich EBA280 centrifuge	Centrifugation of formulations Quickstability testing
	Long-term stability evaluation	3 months at room temperature, 40°C, 4°C
	Challenge Test (ISO 11930)	External test institute for the evaluation of bacterial and yeast resistance in final formulations
Light Microscopy	Kern OBD 137 (camera and software)	Evaluation of particle sizes and oil/water droplet distribution in emulsions
Sensory Evaluation	N/A	Conducted by lab personnel and if needed by further colleagues as blind study
Foam Test	Hair strands	Qualitative and quantitative evaluation of foam behavior and combing stress (relative evaluation)
	Shaking test in cylinder	Foam breakdown evaluation

Contact

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Lab and Innovation Centre

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Schnackenburgallee 41A
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Directions

The Lab and Innovation Centre is easy to reach. Whether by car (via the A7, A1 or A24), by public transport (bus 180, Rondenbarg stop) or by taxi.



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