

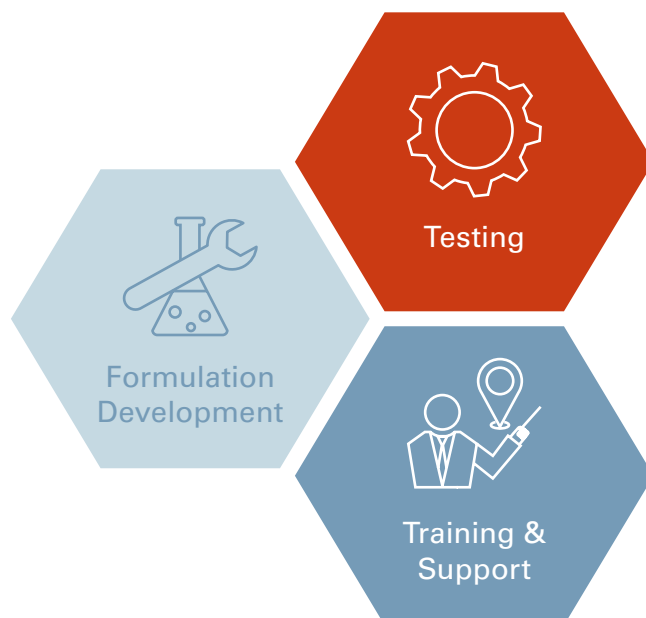


Technical & Application Services –
HealthCare Pharma

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

Covering a total area of 800 m² our Lab and Innovation Centre is used for application-related laboratory activities. These include the development of innovative and market-oriented formulations, carrying out of product tests and customer-specific project work.

- › Developing tailored solutions to cater for the needs of our customers
- › Trend analysis for new formulations
- › Creating innovative formulations with products from our wide-ranging product portfolio
- › Broad range of expertise: Gels, Ointments, Emulsions, Liquids, Sticks, Solid forms (tablets, powders)
- › Screening new raw materials from our partners
- › Conducting comparative studies
- › Internal, customer and supplier technical workshops and trainings in Biesterfeld-owned facilities
- › Calculation of natural origin content NOC (acc. to ISO 16128)
- › Cooperation with external partners (microbiological test acc. to ISO 11930)
- › Wide scope of apparatuses for formulation development and evaluation

The premises also contain a conference room and a modern presentation and meeting area.

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

Methods & Equipment

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
	Thinky Speedmixer	Planetary centrifugal mixer for highly efficient and fast mixing, sample volume: 150ml
Viscosity	Brookfield DV-1 viscosimeter	Relative measurements (no absolute measurements possible due to variable test specimen)
	RV-Spindle set	
	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
	Phoenix Instrument RS-LS10 digital linear and orbital shaker	Segregation assessment of powdered or granulated products in a formulation
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
Filling	Manual filling machine Kimtem A03 Pro	Filling of different packaging equipment and size
	Manual welding machine	For all types of plastic tubes (PE/PP) Height and welding time adjustable
Solid forms	Manual tablet press LFS Machines Oxford LTD	Single tablet manufacturing machine; tablet diameter max. 10mm; tablet thickness 2-6mm; max. pressure 3.1kN

Contact

Dr. Lisa Kühne

Laboratory Manager

mobile +49 170 2295581

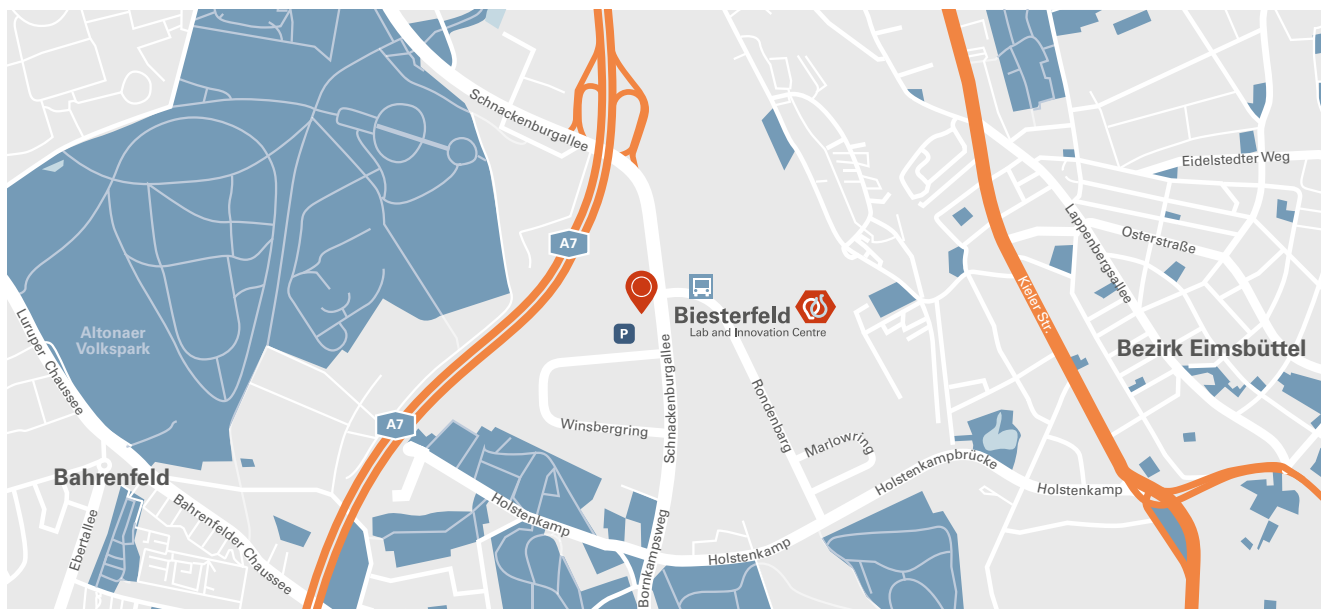
l.kuehne@biesterfeld.com

Lab and Innovation Centre

Lab and Innovation Centre
Schnackenburgallee 41A
22525 Hamburg

Directions

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



Published by:

Biesterfeld SE
Ferdinandstrasse 41
20095 Hamburg
www.biesterfeld.com