

For almost 40 years, **SYMBIOSIS** provides trusted analytical services for (bio-)pharmaceutical and pharmaceutical products. We combine deep scientific expertise with a strong customer-focused approach and uncompromising quality. With GMP certification, a GLP-capable system and a successful FDA and COFEPRIS inspection, adherence to EMA requirements, we deliver services that meet the highest global standards.

SOLUTIONS

SYMBIOSIS provides customer-driven analytical solutions designed to meet regulatory requirements. An extensive range of services, combined with our expert knowledge, ensures accurate analyses and consistent results in GMP- and GLP-capable environments.

Method Development &
Validation



Immunogenicity &
Immunotoxicity



Biologicals &
Pharmaceuticals

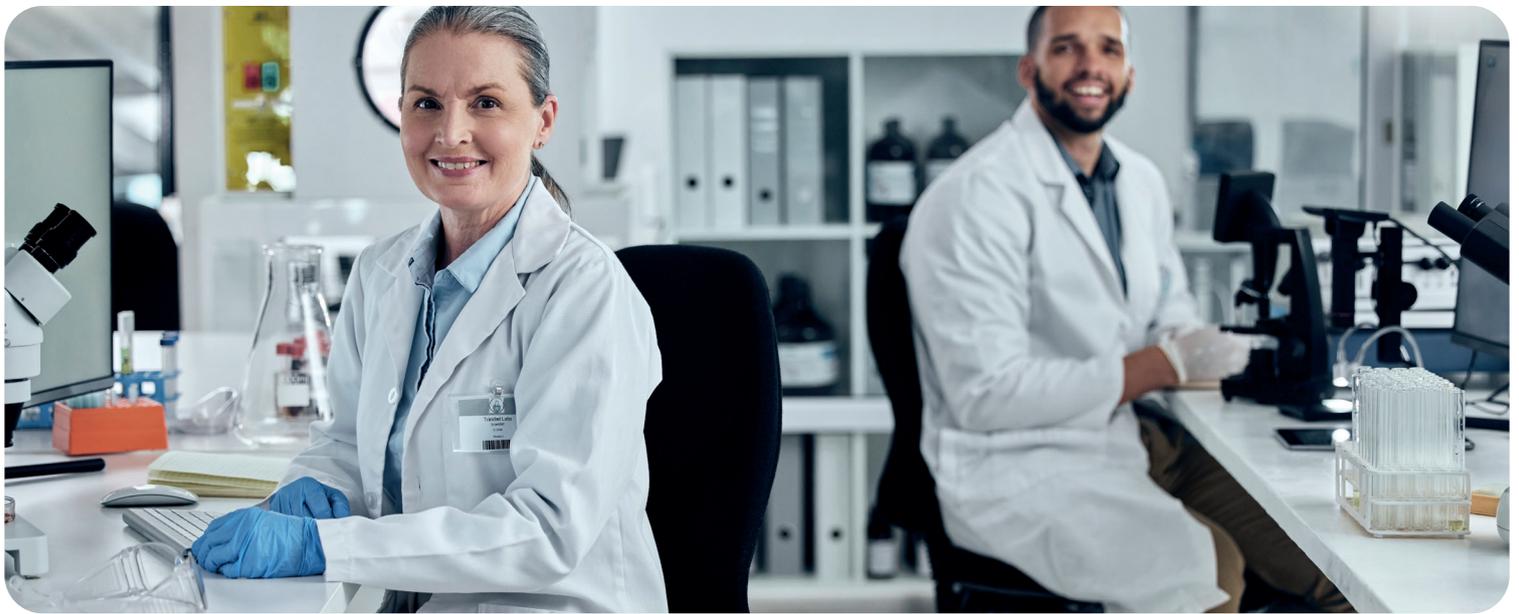


Stability Testing
& Storage



N-Terminal
Sequencing





METHODS

We offer analytical methods for a wide range of substances from small molecules to antibodies. We support you through all stages of the development life cycle of your product, from discovery to market.

IDENTITY

- › Protein sequencing (N- and C-terminal)
- › Peptide mapping
- › Western blot Isoelectric focussing (IEF)
- › Spectrometry (UV-VIS)

PURITY

- › Size exclusion chromatography (SEC)
- › Ion exchange chromatography (IEX)
- › SDS-PAGE
- › Thin layer chromatography

CONTENT

- › RP-HPLC
- › Protein determination (CBB, BCA, UV)
- › ELISA
- › Sialic acid determination
- › Dissolution testing

IMPURITY

- › ELISA for host cell proteins (HCP)
- › Determination of process related impurities

PHYSICOCHEMICAL

- › Colour
- › Clarity/Opalescence
- › Visible particles
- › pH
- › Residual moisture (Karl Fischer)
- › Loss on drying
- › Clarity/Opalescence
- › Resistance to crushing

IMMUNE CELL ASSAYS

- › PBMC assays
- › Cytokine release
- › T-cell activation
- › Immune proliferation
- › Antigen presentation
- › Innate immunity
- › NK cell activity
- › Immunotoxicity screening

FUNCTIONALITY/POTENCY

- › Bioassay
- › Cell culture
- › Dissolution testing

SYMBIOSIS

SYMBIOSIS GmbH
Handelsstrasse 15
D-69214 Eppelheim
Germany

OFFICE
phone: +49 (0) 6221 5383-0
e-mail: info@symbiosis.de
website: www.symbiosis.de