

Currenta as a reliable partner for your analytics.

CURRENTA Analytics

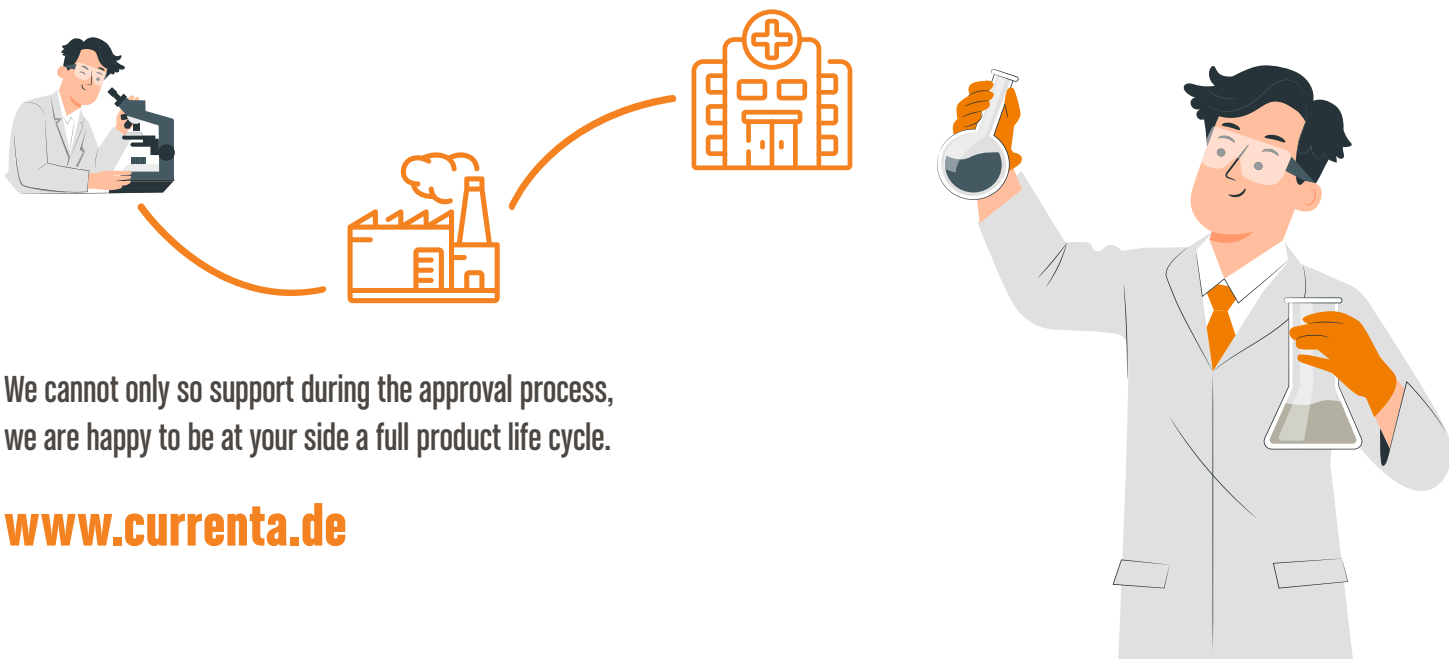
Did you know that currently more than 21.000 pharmaceutical products are in research and development pipelines world-wide?

As the approval of a new drug takes average more than 13 years, prerequisite for this long process and a successful launch, are not only partners who support you if all goes according to plan. They offer options exceeding standard and back you with innovative approaches even with challenging questions.

Currenta's laboratories can be your reliable partner in questions of analytics to help successfully license new drugs and ensure patient safety along the way.

With our broad portfolio and many years of experience with various pharmaceutical products and different techniques we are happy to support you on this journey.

Please find attached a glimpse of our analytic portfolio. If you cannot find the required technique, we surely find a solution.



We cannot only so support during the approval process, we are happy to be at your side a full product life cycle.

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Chromatography:

(U)PLC analytics with various detectors such as

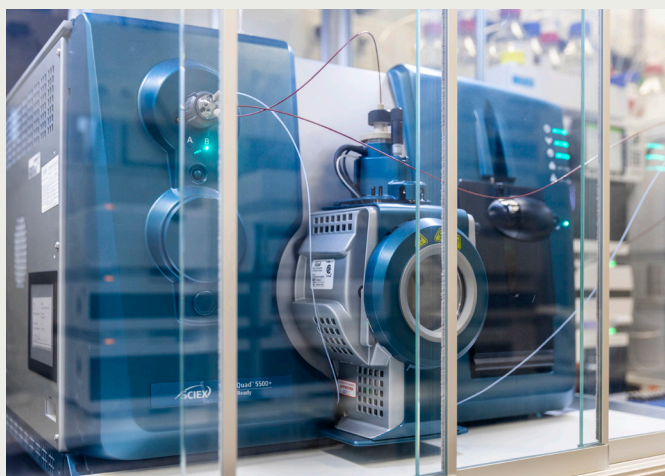
- UV-VIS, DAD, RID, CAD & FLD

GC (Headspace) analytics with various detectors such as

- FID, ECD & WLD

Key skills:

- Method development
- (Product specific) validation/verification
- Analytics according to **EP, USP & JP guidelines**
- Determination of residual solvents e.g. according to **ICH Q3C**



Mass spectrometry:

UPLC and GC coupled MS(-MS)

- Single Quad & Triple Quad
- Q-TOF
- HRMS

Key skills:

- Method development and validation/verifications in ultra-trace range
- **Nitrosamines** analytics
- Quantification of **critical secondary components** e.g. melamine, cyanuric acid, ammeline, ammelide and hydrazine
- **Structure determination**

Drug Product Experts:

Dissolution testing of various pharmaceutical forms e.g. tablets, capsules or granules via

- Paddle or rotating basket method

Determination of **specific drug product parameters** such as

- breaking strength, disintegration & friability

Key skills:

- Testing according to **EP and USP guidelines**
- **Subsequent quantification** with various techniques e.g. chromatographic techniques
- Product specific validations & verifications



Chemical Indicators:

Determination of anions, cations, organic carbon acids and halides and impurities via

- **IC, CIC & ISE**

Determination of **coulometric** and **volumetric indicators** such as

- Water according to Karl-Fischer, fat parameters & oxidation stability

Determination of **physical indicators** such as

- Density, color index & appearance
- **Thermal analysis** e.g. TGA DSC

Limit testing and **elementary analysis**

Key skills:

- Analytics according to **EP, USP, ChP & JP guidelines**
- Determination of **PFAS by total fluorine** concentration in different matrices
- Experience in multiple wet chemical methods such as **Schöniger digestion** or **Kjeldahl method**



Element analysis:

Determination of elements via

- **ICP-MS & ICP-OES**
- **XRF**
- **AAS** (incl. sub-techniques)

Key skills:

- Determination of elements e.g. according to **ICH Q3D**
- Product specific method development, validation/verification
- Analytics according to **EP, USP & JP guidelines**

X-ray analysis:

- X-ray powder diffraction
- Single crystal X-ray diffraction

Key skills:

- Identification of **polymorphic forms** of a drug substance or drug product
- Variable **temperature** and **humidity** measurements
- **Stability control** of polymorphic forms
- Analytics according to **EP, JP & USP guidelines**



NMR spectroscopy:

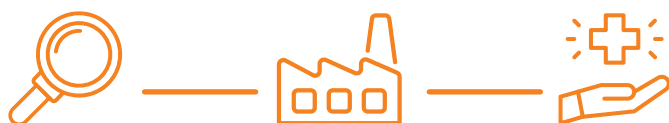
Identification and structure elucidation via

- 400, 600 & 700 MHz magnetic field
- Based on given structures & comparison with reference spectra

(Semi-)quantitative determination of composite of multiple components

Key skills:

- **Absolute** and **relative quantification** of ^1H -, ^{31}P - and ^{19}F -NMR measurements (qNMR)
- Product specific method development, validation/verification
- Determination of reaction kinetics via **in-situ NMR**



Feel free to contact us!

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