



Elecsys[®] immunosuppressive drug assays

*Trusted and consistent results for
organ transplant patients*



cobas[®]

Life needs answers

Elecsys[®] immunosuppressive drug assays

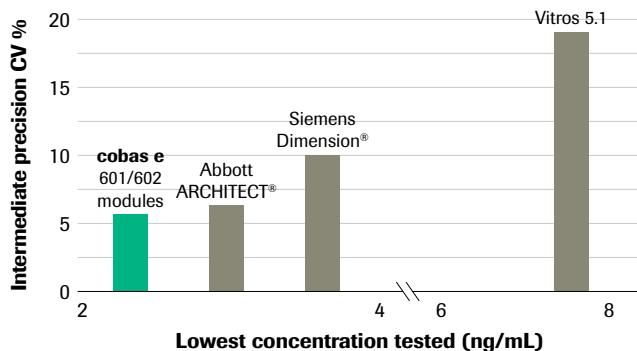
Trusted and consistent results for organ transplant patients

Optimal immunosuppressive therapy, defined clinically and by therapeutic drug monitoring (TDM), is essential to prevent acute rejection and ensure long-term survival of both the patient and the allograft.¹ Characterized by a narrow therapeutic window, the use of immunosuppressive drugs (ISDs) requires both precise and consistent measurement of their concentration in whole blood during life-long monitoring.

Precision

- Advanced ECL assay design and low inherent system variability
- High precision at low drug concentrations
- High precision across a wide measuring range

Elecsys Tacrolimus performance data



Elecsys Cyclosporine performance data

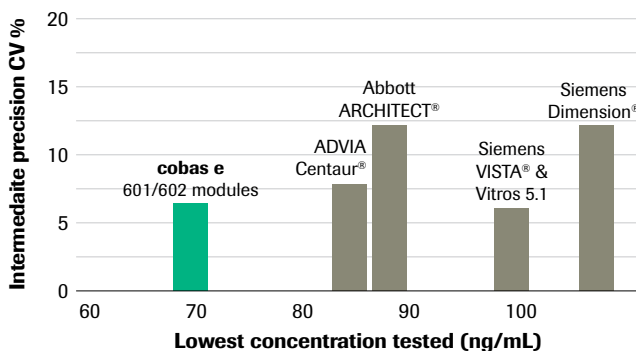


Fig 1: Elecsys Tacrolimus and Cyclosporine assays with best-in-class precision. (Source: Package inserts, 2013)

... enabling doctors to make effective treatment decisions

Consistency

- Excellent lot-to-lot comparability and traceability
- Consistent results across all **cobas**[®] platforms due to universal reagent concept
- High comparability to well established and validated LC-MS/MS methods

N = 1029 samples, Weighted Deming Regression
 $y = 1,07x - 0,269$, $r = 0,97$

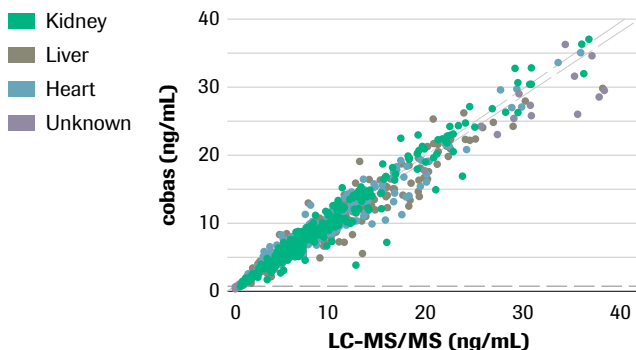


Fig 2: Elecsys Tacrolimus: excellent correlation with a well evaluated LC-MS/MS. (Source: Multicenter evaluation study 2013)²

... for trusted and reliable results every time

Consolidation

- Outstanding possibilities for consolidation with >230 parameters on one **cobas**[®] platform, including those highly relevant for organ transplant patients (e.g. infectious diseases, diabetes, anemia, kidney and liver function)
- Best-in-class automated MPA assay already available, Elecsys Everolimus and Sirolimus in development to complement the comprehensive ISD menu
- Right-sized platforms to meet individual laboratory needs

... for optimized workflow, now and in the future

The new Elecsys[®] immunosuppressant drug assays Tacrolimus and Cyclosporine are an important addition to the **cobas** TDM assay menu making it one of the most complete product offerings.

Assay	cobas e analyzers (Elecsys)	cobas c analyzers
Tacrolimus	●	
Cyclosporine	●	
Sirolimus	●*	
Everolimus	●*	
Mycophenolate		●

* In development

Precision

- *High precision for confidence in results*

Consistency

- *Consistent results for life-long monitoring*

Consolidation

- *Proven platform for relevant monitoring needs*

References

- 1 De Jonge, H., Naesens, M., Kuypers, D.R. (2009). New insights into the pharmacokinetics and pharmacodynamics of the calcineurin inhibitors and mycophenolic acid: possible consequences for therapeutic drug monitoring in solid organ transplantation. *Ther Drug Monit* 31, 416-435.
- 2 Multicenter evaluation study (2013), data on file.

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