

# The Most Convenient Tacrolimus (TACR) Assay



## Turn to the proven drug testing expert

The proven Viva® drug testing systems and Emit® reagents and the Dimension® integrated chemistry systems – for monitoring Cyclosporine C<sub>0</sub> and C<sub>2</sub>, Mycophenolic Acid<sup>1</sup> and Tacrolimus – have the flexibility and capacity to meet all your immunosuppressant drug monitoring needs. Tailor your instrument and reagent combination to ideally suit your lab's needs.

Your solution is accompanied by the strong support network of Siemens Healthcare Diagnostics with more than 30 years of experience in drug testing. Our support provides your laboratory with a high level of service, education and training materials that enable you to keep up-to-date with the latest advancements in your field of expertise.

## Enhance your productivity: Streamline your ISD monitoring workflow

The Emit 2000 Tacrolimus Assay is designed for quantitative analysis of Tacrolimus in human whole blood as an aid in the management of Tacrolimus therapy in transplant patients.

### Assay characteristics:

- Good correlation with LC/MS/MS
- No significant hematocrit interference<sup>2,3</sup>
- Simple pre-treatment procedure
- No reagent pre-treatment
- Rapid results – 10 minutes to first results, up to 130 tests per hour on Viva-E® and 260 tests per hour on V-Twin®
- 3 ISD assays on one analyzer

### Prograf®, the drug

Prograf® (Tacrolimus) is a macrolide immunosuppressant of fungal origin. It is a calcineurin inhibitor with selective action on T lymphocytes. Tacrolimus undergoes hepatic metabolism before immediate biliary excretion, which is the major route of elimination.



## Emit® 2000 Tacrolimus (TACR) Assay

Answers for life.

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# Meeting the need – the Emit 2000 Tacrolimus (TACR) Assay

## Assay performance data

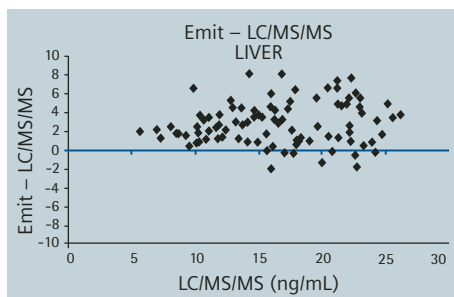
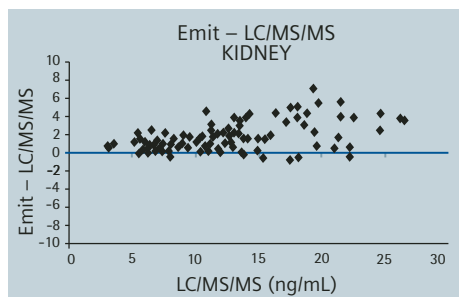
No significant cross-hematocrit interference

Tacrolimus Level	15% hct	25% hct	35% hct	45% hct	5% hct
5 ng/mL	121	111	107	100	101
15 ng/mL	111	108	101	100	99

## Precision

Control Level (ng/mL)	Within-run Precision		Total Precision	
	SD	%CV	SD	%CV
5.10	0.40	7.8	0.83	16.4
9.98	0.50	5.0	1.03	10.3
15.11	0.59	3.9	1.27	8.4
23.87	0.81	3.4	1.62	6.8

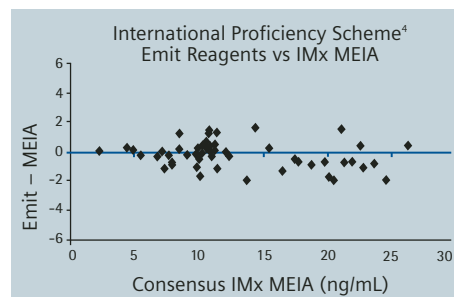
## Patient correlation



## Ordering Information:

Product code:	8R019UL
Packaging:	22mL 10mL 10mL

## International independent proficiency samples



Quality Control	BioRad or MORE
Stability	Eighteen (18) months
Assay Principle	Homogenous enzyme immunoassay technique
Type of Measurement	Photometric
Sample Type	EDTA Whole Blood (200 µl)
Reportable Range	2-30 ng/mL
Sensitivity	Analytical: 2.0 ng/mL Functional: 2.8 ng/mL

- <sup>1</sup> Emit MPA assay is available outside the US; Dimension MPA is in development.
- <sup>2</sup> Hermida J et al: Clinical Significance of Hematocrit Interference in the Tacrolimus II Microparticle Enzyme Immunoassay: A Tentative Approach. *Clin Lab* 2005; 51: 43-45.
- <sup>3</sup> LeGatt, C E S: Comparison of Two Tacrolimus Immunoassays (Emit: Viva and MEIA: IMx<sup>®</sup>) in Four Transplant Groups. AACC 2002; Topic 19, Presentation B-7.
- <sup>4</sup> Proficiency Testing Scheme; Analytical Services International; [www.bioanalytics.co.uk](http://www.bioanalytics.co.uk)

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