The Only Fully-Automated Cyclosporine Assays for Enhanced Productivity

The need: To monitor cyclosporine levels in transplant patients

Cyclosporine A (CSA) is one of the primary immunosuppressive agents used with patients who have undergone cardiac, renal, and liver transplants. Toxic side effects, a narrow window of therapeutic efficacy, and the need to maintain consistent drug levels to prevent organ rejection all require frequent CSA monitoring.[1,2] Although there is no universally established therapeutic range for CSA in whole blood, specific therapeutic ranges have been developed for each organ type and by each transplant institution.

Siemens Healthcare Diagnostics Dimension® CSA and CSAE Assays Meet the Need

The two Dimension cyclosporine assays are the only automated cyclosporine assays on the market, requiring no manual pretreatment steps. This feature will increase your productivity and turn-around time and reduce the potential for errors caused by manual sample splitting.

Add Cyclosporine testing to your routine

With Dimension CSA and CSAE, results are available around the clock, thanks to immediate testing made possible by the direct use of whole blood. Results can be reported rapidly with continuous bar code identification and online result transmission.

Dimension Cyclosporine (CSA) and Cyclosporine Extended Range (CSAE) Assays

Answers for life.

SIEMENS

Dimension Cyclosporine (CSA) and Cyclosporine Extended Range (CSAE) Assays

Cyclosporine Flex® Reagent Cartridge

Mnemonic	CSA
Product Code	DF89
Packaging	80 Tests/Kit, 20 Tests/Flex
Calibration	Dimension CSA Calibrator, Cat. No. DC89 Calibrator levels: 0, 80, 180, 330, 500 ng/mL Calibration frequency: 30 days or new reagent lot
Pretreatment	No manual sample pretreatment – the sample is mixed on board by ultrasound, an aliquot taken, pretreated and analyzed fully automated.
Quality Control	BioRad or MORE
Stability	Closed on board (at 2-8° C): 30 days Open well stability: 3 days
Assay Principle	Magnetic particle immunoassay (ACMIA)
Type of Measurement	Photometric
Sample Type	EDTA Whole Blood (200 µL/cup, 5 µL/test)
Reportable Range	25-500 ng/mL
Sensitivity Limit	Analytical: 25 ng/mL Functional: Not supplied

Precision

Control Level (ng/mL)	Within-run SD	Within-run %CV	Total Precision SD	Total Precision %CV
108	5.3	4.9	12.2	11.3
228	11.1	4.9	15.9	7.0
328	17.8	5.4	25.6	7.8

Method Comparison

HPLC	Slope	Int	R	n
All	1.19	-13.7	0.935	661
Heart	1.28	-16.0	0.893	111
Liver	1.18	-13.3	0.961	201
Kidney	1.13	-8.9	0.920	273
Abbott TDx®				
All	0.83	-20.7	0.957	667
Heart	0.83	-20.9	0.927	111
Liver	0.82	-26.3	0.952	201
Kidney	0.83	-18.8	0.966	279

Specificity	For specific cross-reactivity information, see Instructions for Use.

Cyclosporine (CSAE) Flex® Reagent Cartridge

Mnemonic	CSAE
Product Code	DF108
Packaging	80 Tests/Kit, 20 Tests/Flex
Calibration	Dimension CSAE Calibrator, Cat. No. DC108A Calibrator levels: 200, 400, 800, 1400, 2000 ng/mL Calibration frequency: 30 days or new reagent lot
Pretreatment	No manual sample pretreatment – the sample is mixed on board by ultrasound, an aliquot taken, pretreated and analyzed fully automated.
Quality Control	BioRad or MORE
Stability	Closed on board (at 2-8° C): 30 days Open well stability: 3 days
Assay Principle	Magnetic particle immunoassay (ACMIA)
Type of Measurement	Photometric
Sample Type	EDTA Whole Blood (200 µL/cup, 3 µL/test)
Reportable Range	350-2000 ng/mL
Sensitivity Limit	Analytical: Not supplied Functional: <350 ng/mL

Precision

Control Level (ng/mL)	Within-run SD	Within-run %CV	Total Precision SD	Total Precision %CV
488.7	13.99	2.86	28.77	5.89
866.1	18.61	2.15	47.71	5.51
1301.9	34.41	2.64	68.89	5.29

Method Comparison

HPLC	Slope	Int	R	n
All	1.09	17.1	0.986	140
Heart	0.93	93.7	0.983	35
Liver	1.00	59.9	0.980	40
Kidney	1.10	15.2	0.990	60
Abbott TDx®				
All	1.13	-67.2	0.980	140
Heart	0.996	2.52	0.982	35
Liver	1.11	-61.7	0.970	40
Kidney	1.09	-32.3	0.973	60

Specificity	For specific cross-reactivity information, see Instructions for Use.

For more information about Cyclosporine Assays, contact your local sales representative or call **1-800-242-3233, option 3**.

References:

1. Hardman, JG, Limbird LE, Malinoff PB, Ruddon RW. The Pharmacological Basis of Therapeutics. 9th ed. New York, NY: McGraw Hill; 1996.
2. Kaplan LA, Pesce AJ. Clinical Chemistry-Theory, Analysis, Correlation. 3rd ed. St. Louis, MO: Mosby; 1996.

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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