

EMIT° 2000 Carbamazepine, Gentamicin Plus, N-Acetylprocainamide, Procainamide, Quinidine

Application Sheet

Shading indicates technical content that differs from the previous version.

Emit[®] 2000 Carbamazepine, Gentamicin Plus, *N*-Acetylprocainamide, Procainamide, Quinidine Application Sheet

For the AU400®, AU600®, AU640®, AU680®, AU2700®, AU5400® Clinical Chemistry Systems

Refer to the appropriate Instructions for Use for information regarding these reagents. Also refer to the instrument manual for additional instructions.

Results of this test should always be interpreted in conjunction with the patient's medical history, clinical presentation and other findings.

The parameters defined in this application sheet have been developed by Siemens Healthineers to optimize product performance. Any modification to these parameters may affect performance of this and other assays in use on your system and the resulting assay values. It is the responsibility of the user to validate any modifications and their impact on all assay results.

Reagents

These reagents are qualified for use with the Calibrator(s) listed below only.

	Catalog	Storage
Assay	Number	(weeks)
Emit® 2000 Carbamazepine Assay	4F019UL	7
Emit® 2000 Gentamicin Plus Assay	4T039UL	7
Emit® 2000 N-Acetylprocainamide Assay	4N019UL	4
Emit® 2000 Procainamide Assay	4K019UL	4
Emit® 2000 Quinidine Assay	4Q019UL	4
Emit® 2000 Carbamazepine Assay	OSR4F229	7
Emit® 2000 Gentamicin Plus Assay	OSR4T229	7

	Catalog	Storage
Assay	Number	(weeks)
Emit® 2000 N-Acetylprocainamide Assay	OSR4N229	4
Emit® 2000 Procainamide Assay	OSR4K229	4
Emit® 2000 Quinidine Assav	OSR4Q229	4

	Catalog
Calibrators	Number
Emit® 2000 Carbamazepine Calibrators	4F109UL
Emit® 2000 Gentamicin Plus Calibrators	4T209UL
Emit® 2000 N-Acetylprocainamide	
Calibrators	4N109UL
Emit® 2000 Procainamide Calibrators	4K109UL
Emit® 2000 Quinidine Calibrators	4Q109UL

Storage

Reagents which are in use may be stored on board the analyzer as listed in *Reagents* or as long as the control results fall within acceptable limits.

Instrument

Calibration

Prepare a calibration curve whenever a new lot of reagent is used or as indicated by control results. Calibrate by placing the appropriate calibrators in the assigned positions in the calibration rack (yellow rack). Run a reagent blank (blue rack) with each calibration curve.

Instrument Settings

See page 2.

Results

Results are reported in µg/mL (µmol/L).



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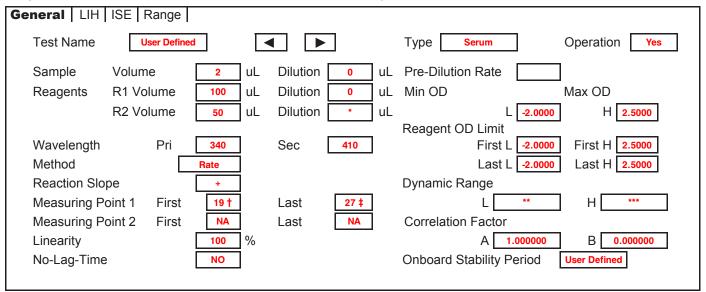
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Instrument

Instrument Settings

General Screen

Reagent ID: Carbamazepine: 501, Gentamicin Plus: 503, N-Acetylprocainamide: 504, Procainamide: 507, Quinidine: 508



^{* –} For assays other than Gentamicin Plus, first enter 0. If problems are encountered with poor precision, enter 10. If problems persist, contact technical assistance. Enter 20 for Gentamicin Plus.

- t Enter 11 for Quinidine
- ‡ Enter 15 for Quinidine
- ** Enter assay sensitivity listed in the package insert.

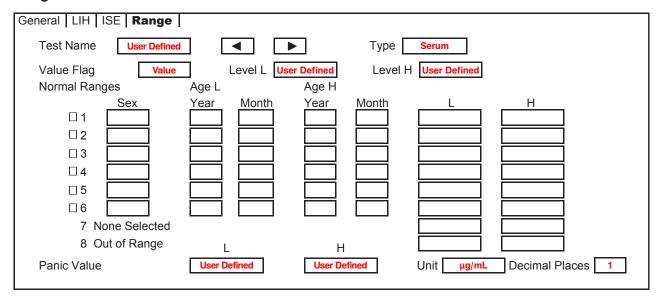
^{*** -} Enter the concentration of the highest calibrator. Enter 12.0 for Procainamide.



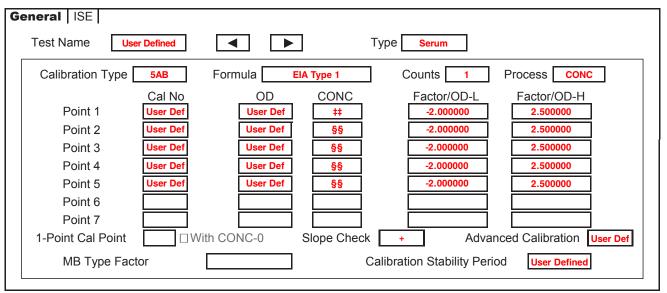
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Range Screen



Calibration Parameters Screen



^{‡‡} – Enter the concentration of the first non-zero assay specific calibrator.

^{§§ -} Enter the remaining assay specific calibrator concentrations.



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Performance

Method Comparison

Clinical specimens were tested using each Emit® 2000 Assay on the AU600 analyzer and on the reference analyzer indicated. The results from the AU600 are as follows:

Carbamazepine

Slope	1.03		
Intercept (µg/mL)	0.35		
Correlation Coefficient	0.99		
Number of Samples 57			
Reference analyzer was the Abbott TDx®			

Gentamicin Plus

Slope	0.94		
Intercept (µg/mL)	0.38		
Correlation Coefficient	0.987		
Number of Samples 60			
Reference analyzer was the Syva®-30R			

N-Acetylprocainamide

Slope	0.91			
Intercept (µg/mL)	0.06			
Correlation Coefficient	0.994			
Number of Samples 56				
Reference analyzer was the Roche/Hitachi 704®				

Procainamide

Slope	1.00			
Intercept (µg/mL)	0.02			
Correlation Coefficient	0.995			
Number of Samples	54			
Reference analyzer was the Abbott TDx				

Quinidine

Slope	1.02		
Intercept (µg/mL)	-0.05		
Correlation Coefficient	0.978		
Number of Samples	53		
Reference analyzer was the Abbott TDx			

Precision

Within run precision was determined by assaying 20 replicates of each level of a tri-level control.

Total precision was calculated according to NCCLS guideline EP5-A using data collected from controls run in duplicate twice daily over twenty days. Precision observed during our testing is outlined below.

Carbamazepine

		Within Run Precision		Total Precision		on	
Level 1 Level 2 Level 3		Level 1	Level 2	Level 3			
Me (µ(ean g/mL)	4.7	10.5	15.3	4.4	10.2	15.0
% (CV	2.9	2.2	2.2	6.3	4.8	6.5

Gentamicin Plus

	Within Run Precision		Total Precision		on	
	Level 1 Level 2 Level 3			Level 1	Level 2	Level 3
Mean (μg/mL)	1.3	3.7	6.6	1.4	3.9	7.1
% CV	3.6	2.0	1.7	6.3	5.0	6.3

N-Acetylprocainamide

	Within Run Precision			Total Precision		
	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
Mean (μg/mL)	2.4	5.6	10.6	2.1	5.1	9.8
% CV	2.8	1.9	2.7	4.3	4.2	4.5



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Procainamide

	Within Run Precision			Total Precision		
	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
Mean (μg/mL)	2.5	6.9	12.3	2.4	6.7	11.1
% CV	1.3	1.7	4.8	3.7	3.6	7.9

Quinidine

	Within Run Precision			Total Precision		
	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3
Mean (μg/mL)	1.5	3.3	4.7	1.4	3.3	4.7
% CV	2.9	3.4	3.0	8.5	6.7	9.3

NOTE: Performance on the AU400, AU600, AU640, AU680, AU2700, and AU5400 series analyzers has been shown to be equivalent.



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Definition of Symbols

The following symbols may appear on the product labeling:

Manufacturer 5.1.1a Light REP Authorized representative in the European Community CH REP Authorized representative in Switzerland	5.1.2 ^a Proprietary 5.1.5 ^a
Use-by date 5.1.4ª CH REP Authorized representative in Switzerland	
	5.1.5 ^a
REF Catalog number 5.1.6° LOT Batch code	
Consult Instructions for Use 5.4.3 ^a Contains sufficient for <n> tests</n>	5.5.5°
Internet URL address to access the electronic instructions for use Proprietary	Proprietary
In vitro diagnostic medical device 5.5.1a Rev. Revision REVISION	Proprietary
RxOnly Prescription device (US only) FDA ^c Unique Device Identifier	5.7.10 ^b
CE Marking with Notified Body EU IVDR ^d CE Marking CE Marking	EU IVDR ^d
Temperature limit 5.3.7 ^a Keep away from sunlight	5.3.2ª
Upper limit of temperature 5.3.6 ^a Lower limit of temperature	5.3.5ª
Do not re-use 5.4.2° Do not freeze	Proprietary



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Symbol	Symbol Title	Source	Symbol	Symbol Title	Source
	Recycle	1135°	<u> </u>	This way up	0623°
8	Biological risks	5.4.1ª	\triangle	Caution	5.4.4ª
UNITS C	Common Units	Proprietary	UNITS SI	International System of Units	Proprietary
	Document face upf	1952°	YYYY-MM-DD	Date format (year-month-day)	N/A
NON STERILE	Non-sterile	Proprietary	YYYY-MM	Date format (year-month)	N/A
	Reconstitution volume	Proprietary	CONTENTS	Contents	Proprietary
FORENSIC TOXICOLOGY	For forensic/toxicology use only	Proprietary	LEVEL	Level	Proprietary
DROPPER	Dropper	Proprietary	CASSETTE	Cassette	Proprietary
	Not for self-testing	EU IVDR ^d		Not for near-patient testing	EU IVDR ^d

anternational Standard Organization (ISO). ISO 15223-1 Medical Devices- Symbols to be used with medical device labels, labelling and information to be supplied.

b ISO 15223-1:2020-04.

^c Federal Register. Vol. 81, No 115. Wednesday, June 15, 2016. Rules and Regulations: 38911.

d IVDR REGULATION (EU) 2017/746

e International Standard Organization (ISO). ISO 7000 Graphical symbols for use on equipment.

f Indicates Assay-eNote.



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TDx® is a registered trademark of Abbott Diagnostics.

Roche/Hitachi 704® is a registered trademark of Roche Diagnostics.

For technical assistance:

Beckman Coulter customers, contact the Customer Technical Support Center at 1-800-854-3633 (USA & Canada)

In other countries, please contact your local Beckman Coulter representative.

Siemens Healthineers customers, contact the Technical Solutions Center at 1-800-227-8994 in the USA.

Technical Assistance

According to EU regulation 2017/746, any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the EU Member State in which the user and/or patient is established. siemens-healthineers.com

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