

Shading indicates technical content that differs from the previous version.

**Emit® 2000 Carbamazepine Assay
Application Sheet**

**For the DxC 700 AU®
Clinical Chemistry System**

Refer to the appropriate Instructions for Use for information regarding these reagents. Also refer to the Operator's Guide 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.

<u>Emit 2000 Carbamazepine Assay</u>	<u>Catalog Number</u>
Syva Kit	4F019UL
Beckman Coulter Kit	OSR4F229

<u>Calibrators</u>	<u>Catalog Number</u>
Emit 2000 Carbamazepine Calibrators	4F109UL

Storage

Reagents which are in use may be stored on board the analyzer for up to 9 weeks or as long as quality control results are within acceptable limits.

Important Information

For performance characteristics, intended use, limitations and a detailed description how to perform the method, refer to the Emit® 2000 Carbamazepine Assay Instructions for Use.

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.

Table 1

Calibrator			CAR1G-1	CAR1G-2	CAR1G-3	CAR1G-4	CAR1G-5
Carbamazepine Concentration	µg/mL	0.0	2.0	4.0	8.0	12	20
	µmol/L	0	8.5	17	34	51	85

Results

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

Instrument Settings

General Screen

Reagent ID: 501

General	LIH	ISE	Calculated Test	Range
Test Name: <input type="text" value="CAR1G"/> ▼		Type: <input type="text" value="Serum"/> ▼		Operation: <input type="text" value="Yes"/> ▼
Sample Volume	<input type="text" value="1.6"/> μL	Dilution	<input type="text" value="0"/> ▼ μL	OD Limit
Pre-Dilution Rate	<input type="text" value="1"/> ▼			Min. OD <input type="text" value="-2.0000"/> Max. OD <input type="text" value="2.5000"/>
Reagent Volume	R1 (R1-1) <input type="text" value="80"/> μL	Dilution	<input type="text" value="0"/> μL	Reagent OD Limit
	R1-2 <input type="text" value=""/> μL	Dilution	<input type="text" value=""/> μL	1st Low <input type="text" value="-2.0000"/> High <input type="text" value="2.5000"/>
	R2 (R2-1) <input type="text" value="40"/> μL	Dilution	<input type="text" value="10"/> μL	Last Low <input type="text" value="-2.0000"/> High <input type="text" value="2.5000"/>
Common Reagent	Type <input type="text" value="None"/>	Name	<input type="text" value="None"/>	Analytical Measuring Range Low <input type="text" value="0.5†"/> High <input type="text" value="20.0†"/>
Wavelength	Pri <input type="text" value="340"/> ▼ nm	Sec	<input type="text" value="410"/> ▼ nm	Correlation Factor A <input type="text" value="1"/> B <input type="text" value="0"/>
Method	<input type="text" value="RATE"/> ▼			Manufacturer Factor A <input type="text" value="1"/> B <input type="text" value="0"/>
Reaction Slope	<input type="text" value="+"/> ▼			Onboard Stability Period <input type="text" value="63"/> Day <input type="text" value="0"/> Hour
Measuring Point-1	1st <input type="text" value="19"/>	Last	<input type="text" value="27"/>	LIH Influence Check <input type="text" value="Yes"/> ▼
Measuring Point-2	1st <input type="text" value=""/>	Last	<input type="text" value=""/>	Lipemia <input type="text" value="++++"/> ▼
Linearity Limit	<input type="text" value="100"/> %			Icterus <input type="text" value="++++"/> ▼
Lag Time Check	<input type="text" value="No"/> ▼			Hemolysis <input type="text" value="++++"/> ▼

† Values set for working in μg/mL. To work in μmol/L, multiply by 4.23

Range Screen

General	LIH	ISE	Calculated Test	Range				
Test Name: <input type="text" value="CAR1G"/>		Type: <input type="text" value="Serum"/>						
Value/Flag <input type="text" value="Value"/>		Level Low <input type="text" value="-999999.9"/> High <input type="text" value="999999.9"/>						
Specific Ranges								
	From		To		Other Type	Low	High	
<input type="checkbox"/> 1:	Sex <input type="text" value="#"/>	Year <input type="text" value="#"/>	Month <input type="text" value="#"/>	Year <input type="text" value="#"/>	Month <input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 2:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 3:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 4:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 5:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
<input type="checkbox"/> 6:	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="#"/>	<input type="text" value="None"/>	<input type="text" value="#"/>	<input type="text" value="#"/>
7:	Standard demographics						<input type="text" value="#"/>	<input type="text" value="#"/>
8:	Not within expected values						<input type="text" value="#"/>	<input type="text" value="#"/>
Critical Limits		Low <input type="text" value="#"/>	High <input type="text" value="#"/>	Unit <input type="text" value="µg/mL"/>		<input type="text" value="Select"/>	Decimal places <input type="text" value="1"/>	

User Defined

Calibration Specific Screen

Calibrators	General	ISE																																																		
Test Name: <input type="text" value="CAR1G"/> ▼ Type: <input type="text" value="Serum"/> ▼																																																				
Calibration Type <input type="text" value="5AB"/> ▼ Formula <input type="text" value="EIA Type 1"/> ▼ Counts <input type="text" value="2"/>																																																				
< Calibrator Parameters > <input type="checkbox"/> Use Serum Cal.																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Calibrator</th> <th rowspan="2">OD</th> <th rowspan="2">Conc</th> <th colspan="2">Range</th> </tr> <tr> <th>Low</th> <th>High</th> </tr> </thead> <tbody> <tr> <td>Point-1</td> <td>CAR1G-1*</td> <td></td> <td>2.0††</td> <td>-2.0000</td> <td>2.5000</td> </tr> <tr> <td>Point-2</td> <td>CAR1G-2*</td> <td></td> <td>4.0††</td> <td>-2.0000</td> <td>2.5000</td> </tr> <tr> <td>Point-3</td> <td>CAR1G-3*</td> <td></td> <td>8.0††</td> <td>-2.0000</td> <td>2.5000</td> </tr> <tr> <td>Point-4</td> <td>CAR1G-4*</td> <td></td> <td>12††</td> <td>-2.0000</td> <td>2.5000</td> </tr> <tr> <td>Point-5</td> <td>CAR1G-5*</td> <td></td> <td>20††</td> <td>-2.0000</td> <td>2.5000</td> </tr> <tr> <td>Point-6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Point-7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Calibrator	OD	Conc	Range		Low	High	Point-1	CAR1G-1*		2.0††	-2.0000	2.5000	Point-2	CAR1G-2*		4.0††	-2.0000	2.5000	Point-3	CAR1G-3*		8.0††	-2.0000	2.5000	Point-4	CAR1G-4*		12††	-2.0000	2.5000	Point-5	CAR1G-5*		20††	-2.0000	2.5000	Point-6						Point-7					
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Point-7																																																				
MB Type Factor <input type="text"/> 1-Point Calibration Point <input type="text" value="None"/> ▼ <input type="checkbox"/> with Conc-0																																																				
<div style="display: flex; justify-content: space-between;"> <div> Slope Check <input type="text" value="+"/> ▼ </div> <div> Allowable Range Check <input type="checkbox"/> Reagent Blank <input type="text"/> <input type="checkbox"/> Calibration <input type="text"/> </div> </div>																																																				
<div style="display: flex; justify-content: space-between;"> <div> Advanced Calibration Operation <input type="text" value="Yes"/> ▼ Interval (RB) <input type="text" value="Lot"/> ▼ Interval (ACAL) <input type="text" value="Lot"/> ▼ </div> <div> Stability Reagent Blank <input type="text" value="#"/> Day <input type="text"/> Hour Calibration <input type="text" value="#"/> Day <input type="text"/> Hour </div> </div>																																																				

* Syva® Calibrator

†† Calibrator concentrations in µg/mL. Refer to Table 1 for µmol/L.

User Defined

Syva[®]

EMIT[®] 2000 Carbamazepine Assay

Application Sheet

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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.

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