

Syva®

EMIT° II Plus Ethyl Alcohol Assay

Shading indicates technical content that differs from the previous version.

Emit[®] II Plus Ethyl Alcohol Application Sheet

For the AU480[®] and AU5800[®] 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 Calibrators/ Controls listed below only. Other material may be used however, for quality control purposes.

Assay	Catalog Number				
	<u>28 mL Kit</u>	<u>115 mL Kit</u>	<u>1000 mL Kit</u>		
Emit® II Plus Ethyl Alcohol Assay	9K039UL	9K309UL	9K409UL		
Emit® II Plus Ethyl Alcohol Assay		OSR9K229			

Emit® Ethyl Alcohol Calibrators	Catalog Number
Negative	9K029UL
100 mg/dL	9K059UL
Emit® Ethyl Alcohol Controls	Catalog Number
Low	9K049UL
High	9K079UL

Storage

Reagents which are in use may be stored on board the analyzer for up to 4 weeks or as long as the control results fall within acceptable limits.

Instrument

Calibration

Calibrate by running the negative and 100 mg/dL calibrators whenever a new lot of reagents is used or as indicated by control results.

Instrument Settings

See page 2.

Results

Results are reported in mg/dL or g/L.

NOTE: To convert mg/dL to g/L ethyl alcohol, multiply by 0.01.

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Instrument Settings

LIH

General Screen

ISE HbA1c Calculated Tests General Range Test # . User Defined < > Type Ser or Urine Operation Test Name Yes Dilution 0 uL 2.8 Sample Volume uL **OD** Limit Pre-Dilution Rate 1 Min OD -2.0000 Max OD 2.5000 R1(R1-1) 147 uL Dilution 0 uL Reagent OD limit Reagent Volume High First Low -2.0000 2.5000 Last Low High -2.0000 2.5000 R2(R2-2) 63 uL Dilution 0 uL High 600.0 Dynamic Range Low 10.0 Common Reagent Туре Name Correlation Factor A В 0.00000 1.00000 410 Factor for Maker Wave Length Pri. 340 nm Sec. А В nm Method Onboard Stability Period User Day Defined **Reaction Slope** Hour + Measuring Point-1 First 12 Last 16 Measuring Point-2 First Last Linearity Limit % Lag Time Check

Range Screen

General LIH ISE	Hb	A1c	Calculated Tests	Range
Test Name Test # . User Defined < > Type	De Ser or Urin	e		
Value/Flag <u>Value</u> Level			Panic Value	
	Low	High	Low	High
	User Defined	User Defined	User Defined	User Defined
Specific Ranges				
From To	1	L P - Is		
Sex Year Month Year Month	Low	High		
7 No Demographics				
8 Not within expected values				
Unit * Decimal Places 1				

*mg/dL or g/L

Application Sheet

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Calibrator	Calibratio	on Spec	ST	AT Table C	alibration	
Test Nam		fined	< >	Тур	e Ser/Urine	Use Serum Cal
Calibratio <calibrati< td=""><td>n Type 2A on Parameters></td><td>В</td><td>Formula</td><td>Polygona</td><td>Counts</td><td>S 2 Slope Check +</td></calibrati<>	n Type 2A on Parameters>	В	Formula	Polygona	Counts	S 2 Slope Check +
				OD Ra	inge	
	Calibrator	OD	Conc	Low	High	
Point-1	Cal # . User Defined		0.0	-2.0000	2.5000	-
Point-2	Cal # . User Defined		*	-2.0000	2.5000	Allowable Range Check
Point-3						Reagent Blank
Point-4						☐ Calibration
Point-5						
Point-6						Advanced Calibration
Point-7						Operation Yes
Point-8						
Point-9						Interval (RB/ACAL) Lot/Lot
Point-10						Lot Calibration
<point cal<="" td=""><td>. For Master Curve></td><td>No. of</td><td>Correction</td><td></td><td>Use Master C</td><td>urve</td></point>	. For Master Curve>	No. of	Correction		Use Master C	urve
		00	~	OD Ra	0	
D · / /	Calibrator	OD	Conc	Low	High	Stability User Defined
Point-1						Reagent Blank Day Hour
Point-2		4 D-1 1	O a l'hana t'			Calibration Day Hour
МВ Туре	Factor	1-Point	Calibratio	n Point No	ne with Con	C-U

Calibration Specific Screen

*100.0 for mg/dL or 1.0 for g/L

Performance

Method Comparison

Clinical urine and serum specimens were tested using the Emit® II Plus Ethyl Alcohol Assay on the AU600® analyzer and on the SYVA®-30R analyzer.

Ethyl Alcohol Urine

Slope	0.97
Intercept	2.9
Correlation Coefficient	1.00
Number of Samples	50

Ethyl Alcohol Serum

Slope	1.05
Intercept	-9.6
Correlation Coefficient	0.993
Number of Samples	50

Precision

Within run precision was calculated according to NCCLS Guideline EP5-A by running 2 replicates of the 100 mg/dL calibrator with positive and negative controls twice a day for 20 days (N=80). Total precision was also calculated from these data.

Ethyl Alcohol

	Withi	n Run Prec	cision	Total Precision			
	100 mg/dL	40 mg/dL	300 mg/dL	100 mg/dL	40 mg/dL	300 mg/dL	
Mean	100	40	300	100	40	296	
SD	0.9	0.5	2.5	2.4	1.7	5.6	
CV%	0.8	1.1	0.8	2.4	4.1	1.9	



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Analytical Recovery

Negative human urine and serum were spiked with ethyl alcohol at concentrations throughout the assay range. Recovery results on the AU600® are listed below.

Ethyl Alcohol: Urine

Concentration (mg/dL)	Mean (mg/dL)
25	26.7
80	82.4
200	208
400	370

Ethyl Alcohol: Serum

Concentration (mg/dL)	Mean (mg/dL)
25	27.5
80	80.1
200	190
400	375

Analytical Sensitivity

The sensitivity level of the Emit® II Plus Ethyl Alcohol Assay on the AU600® is <10 mg/dL ethyl alcohol. This level represents the lowest concentration of ethyl alcohol that can be distinguished from zero mg/dL with a confidence level of 95%.

NOTE: Performance on the AU480®, AU5800® and AU600® series analyzers has been shown to be equivalent.

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Definition of Symbols

The following symbols may appear on the product labeling:

Symbol	Symbol Title	Source	Symbol	Symbol Title	Source
	Manufacturer	5.1.1ª	EC REP	Authorized representative in the European Community	5.1.2ª
	Use-by date	5.1.4ª	CH REP	Authorized representative in Switzerland	Proprietary
REF	Catalog number	5.1.6ª	LOT	Batch code	5.1.5ª
ī	Consult Instructions for Use	5.4.3ª	Σ	Contains sufficient for <n> tests</n>	5.5.5°
[1]	Internet URL address to access the electronic instructions for use	Proprietary	Rev. XX	Version of Instructions for Use	Proprietary
IVD	In vitro diagnostic medical device	5.5.1ª	Rev. REVISION	Revision	Proprietary
RxOnly	Prescription device (US only)	FDA°	UDI	Unique Device Identifier	5.7.10°
C xxxxx	CE Marking with Notified Body	EU IVDR⁴	CE	CE Marking	EU IVDR ⁴
X	Temperature limit	5.3.7ª	×	Keep away from sunlight	5.3.2ª
X	Upper limit of temperature	5.3.6ª	X	Lower limit of temperature	5.3.5ª
\otimes	Do not re-use	5.4.2ª		Do not freeze	Proprietary



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Symbol	Symbol Title	Source	Symbol	Symbol Title	Source
	Recycle	1135°	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	This way up	0623°
3	Biological risks	5.4.1ª	\triangle	Caution	5.4.4ª
UNITSC	Common Units	Proprietary	UNITS SI	International System of Units	Proprietary
	Document face up ^r	1952°	YYYY-MM-DD	Date format (year-month-day)	N/A
NON STERILE	Non-sterile	Proprietary	YYYY-MM	Date format (year-month)	N/A
\longrightarrow	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 IVDR⁴		Not for near-patient testing	EU IVDR⁴

^a International 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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AU®, AU480®, AU600®, and AU5800® are registered trademarks of Beckman Coulter, Inc.

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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