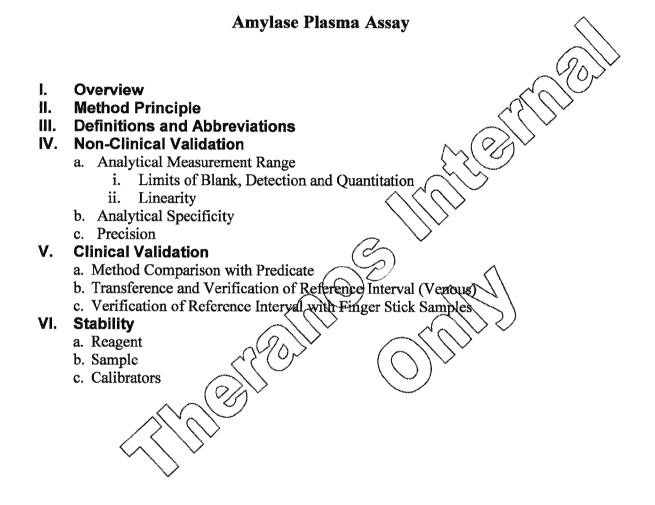
| theran _® s | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|-----------------------------------------------------------------------------------|------------------------|------|
| | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin Plasma | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

| | Validation of Modified Siemens Am | ylase Assay |
|--------------|-----------------------------------|-------------------------------------|
| | | |
| Author(s): | | |
| | Signature: | Date: 12 12 13 |
| | Name: Paul Patel, Ph.D. | Title: Team Dead, General Chemistry |
| Reviewer(s): | | |
| | Signature: | Date: |
| | Name: | Title: |
| | | |
| | Signature: | Date: 12/15/2013 |
| | Name: Daniel Young, Ph.D. | Title: Vice President |
| Approver(s): | | |
| | Signature: | Pate: 12/12/13 |
| | Name: Adam Rosendorff, M.D. | Title: Laboratory Director |
| | m | 2/12/15 |
| | Sunil S. Dhawan M.D. | |

Page 1 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|----------------------------------------------------------------------|------------------------|------|
| theran _® s | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium H | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |



Page 2 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| the sugar | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|------------------------------------------------------------------------------|------------------------|------|
| theran _® s | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium He Plasma | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

Overview

Amylases are a group of hydrolases that degrade complex carbohydrates into fragments. Amylase is produced primarily by the exocrine pancreas where the enzyme is synthesized by the acinar cells and then secreted into the intestinal tract by way of the pancreatic duct system. Amylases also are produced by the salivary glands, small intestine much a ovaries, placenta, liver, and fallopian tubes. Pancreatic and salivary isoen wines are found in serum.

1. Method Principle

The ADVIA chemistry amylase method uses ethylidene blocked p-nitrophenylmaltoheptaoside as a substrate. The indicator enzyme a glucosidase, used to release the p-nitrophenol, is also employed in the method. The terminal glucose of the substrate is chemically blocked preventing cleavage by the indicator enzymes. The released pnitrophenol is measured at 410/694 nm.

Reaction Equation

Ed-G7PNP
$$\xrightarrow{\alpha$$
-Amylase \rightarrow Ed-G_n + G_n-PNP

Definitions and Abbreviations II.

The following definitions and abbreviations are used in this document and related documents and attachments:

- a. Accuracy: Accuracy is defined by CLSI as the closeness of agreement between a test result and an accepted reference value. Method accuracy is used in a different sense by the American Association of Pharmaceutical Scientists where it is expressed as percent relative error (%RE). Trueness, a related CLSI term, is the closeness of agreement between the average of a number of replicate measured quantity values and a reference quantity value.
- b. Analyte: Component represented in the name of a measurable quantity. The closely related term measureand is defined as the particular quantity subject to measurement.

Theranos Confidential

Page 3 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|---------------------------------------------------------------------------|------------------------|-----------|
| theran s | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Plasma | | n Heparin |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

- c. Analytical sensitivity: There are several alternative uses of this term. Most commonly, and for the purposes of this Validation Plan, it is used interchangeably with limit of detection. It is also used to describe the ability of an analytical method to assess small variations of the concentration of an analyte, such as the slope of the calibration curve (IUPAC).
- d. Analytical specificity: Ability of a test or procedure to correctly identify or quantify an entity, including in the presence of interfering substance(s) or phenomena.
- e. Calibration: Set of operations that establish, under specified conditions, the relationship between values of quantities indicated by a measuring instrument or measuring system, or values represented by a material measure or a reference material, and the corresponding values realized by standards. Under CLIA, calibration refers to the process of testing and adjusting an instrument, kit, or test system, to provide a known relationship between the measurement response and the value of the substance being measured by the test procedure (42 CFR 493.1217).
- f. Calibrator: A substance, material, or article intended to be used to establish the measurement relationships of a diagnostic medical device.
- g. CLIA: Clinical Laboratory Improvement Amendments of 1988. Congressional legislation that defined and requires specific quality assurance practices in clinical laboratories.
- h. CLSI: Clinical and Laboratory Standards Institute.
- i. Coefficient of Variation: The ratio of the standard deviation to the average, often multiplied by 100 and expressed as a percentage, abbreviated as %CV.
- j. Colorimetry: A technique used to determine the concentration of colored compound(s) in solution.
- k. **Interfering substance:** A substance or quantity thereof that is not the measurand but that affects the result of the measurement.
- 1. IUPAC: International Union of Pure and Applied Chemistry
- m. LDT: Laboratory -developed Test.

Page 4 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|-----------------------------------|---------------------------------------------|-----------|
| theran s | Report | CL RPT-14061 | 1 |
| Description | Validation Report for M Plasma | odified Siemens Assay of Amylase in Lithiur | n Heparin |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

- n. **Linearity:** Linearity is the ability of a quantitative analytical method to provide results that are directly proportional to the concentrations of an analyte in test samples, within a given measuring interval. It is an important parameter to confirm when evaluating an analytical method because it verifies correct interpolation of results between points.
- o. LMR: Lower end of the measuring range is the lowest level at which defined conditions, including all stated characteristic of the method, are method.
- p. LoB: Limit of Blank is the highest value in a series of results on a sample that contains no analyte.
- q. LoD: Limit of Detection is the lowest amount of analyte in a sample that can be detected with stated probability, although perhaps not quantified as an exact value.
- r. LoQ: When used without a prefix, the Limit of Quantitation is the lowest actual concentration at which an analyte is reliably detected and at which uncertainty of the test result is less than or equal to the goal set by the manufacturer or laboratory. The term may also be used with prefixes 1 for lower (LLOQ) and U for upper (ULOQ), respectively. Note: LoB < LoD ≤ LoQ.
- s. Matrix: All components of a material system, except the analyte. A specimen matrix is the biological milieu in which an analyte exists (e.g., plasma, serum, urine, or other body fluids).
- t. Measuring Interval (reportable range; analytical measurement range or AMR):
 A measuring interval consists of all numeric values between the lower and upper numeric values for which a method can produce quantitative results suitable for clinical use. Where applicable, a linearity study is frequently used to establish or verify the measuring interval that can be reported for a measurement method. Alternatively, the lower limit of the measuring interval may be assigned as the LoQ (LLOQ).
- u. Precision: Precision is the closeness of agreement between indications or measured quantity values obtained by replicate measurements on the same or similar objects under specified conditions. It is usually expressed numerically in terms of standard deviation (SD) or percent Coefficient of Variation (%CV).

Page 5 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| | LDT Validation | Theranos Amylase Assay | Rev: | |
|------------------------------|-----------------------------------------------------------------------------------|------------------------|------|--|
| theran s | Report | CL RPT-14061 | 1 | |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Hepa Plasma | | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | | |

v. **Reference interval:** The interval between and including two reference limits. It is common practice to define a reference limit so a stated fraction of the reference values is less than or equal, or greater than or equal, to the respective upper or lower limit.

w. SOP: Standard Operating Procedure.

x. Spectrophotometry: The quantitative measurement of the transmission (or reflection) properties of a material as a function of wavelength.

y. **Testing System:** The entirety of the testing process, including instrument, sample, reagents, supplies, and procedures. Personnel are sometimes included in the definition.

III. Pre-clinical Validation

- a. Analytical Measurement Range
 - i. Limits of Blank, Detection and Quantitation

The limits of blank, detection, and quantitation were determined to be 0.1 U/L, 0.71 U/L and 0.71 U/L respectively:

Theranos Confidential

Page 6 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

|--|

LDT Validation Report Theranos Amylase Assay
CL RPT-14061

Rev:

Description

Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin Plasma

Originator: Curtis Schneider

Date: 10/15/2013

Limit of blank

CLSI guideline EP17-A section 4.3.1

| Level | Number of samples | N | Mean | SD | |
|------------|-------------------|----|------|------|---------------|
| Blank | . 1 | 20 | 0.02 | 0.05 | |
| Alpha | 5% | | | | ~(/0> |
| netric LoB | 0.10 | | | ~ | |
| | | | | (| , /) , |
| | | | | | \rightarrow |

Limit of detection

CLSI guideline EP17-A section 4.3.2

Param

| Level | Number of samples | N | | Pooled SD | |
|--------|----------------------|----|----|-----------|--|
| T.GAG! | adiithiga | 14 | | Logied 2D | |
| Low | 1 | | 20 | 0.37 | |
| Reta | 5% | | | | |

0.71

Parametric LoD

Limit of quantitation
CLSI guideline EP17-A section 5.1

| Level | Number of samples | N |
|--------------------|----------------------|----|
| Low | 1 | 20 |
| Bias | -0.15 0.37 | |
| Pooled imprecision | 0.37 | |
| 95% total error | -0.87 | |
| Allowable error | 1.0 | |
| LoQ | 0.71 | |

95% total error is less than allowable error: 20%.

LoQ has been established.

ii. Linearity

The Analytical Measurement Range (AMR) including linear measurement interval has been determined by Siemens. Refer to the Analytical Range section of the manufacturer product information insert for additional details.

Theranos Confidential

Page 7 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13

| | LDT Validation | Theranos Amylase Assay | Rev: |
|------------------------------|---------------------------------------------------------------------------|------------------------|-----------|
| theran⊚s | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Plasma | | n Heparin |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

b. Analytical Specificity

The analytical specificity for this assay was determined by testing the effect of hemoglobin (100 mg/dL), bilirubin (10 mg/dL) and triglycerides (400 mg/dL) on plasma samples spiked with the interferents and then compared with un-spiked controls. Amylase concentration at which the interference testing was performed at was 62 U/L. Non-interference was defined as the mean result from testing of spiked samples within 10% of the mean of the un-spiked samples. Recoveries were within 94.6% to 99.7% (see table below).

Table 1. Interference Testing For Amylase

| Analyte (mg/dL) | | % Recovery | |
|-----------------|-------------------------|-----------------------------------------------------|--|
| | Interferent | | |
| | Bilirubin (10 mg/dL) | Hemoglobin Triglycerides (100 mg/dL) (400 mg/dL) | |
| Amylase | 99.7 | 98.4 94.6 | |

No significant interference was observed:



Theranos Confidential

Page 8 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

theran_®s

LDT Validation Report

Theranos Amylase Assay
CL RPT-14061

Rev:

Description

Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin

Originator: Curtis Schneider

Date: 10/15/2013

Level = Level 1

| Number of observations | 80 |
|------------------------|----|
| Number of runs | 40 |
| Number of days | 20 |
| Runs per day | 2 |
| Replicates per run | 2 |
| respirated por tall | - |

Mean 41.6



| | SD | 95% CI | cv | Allowable Total SD |
|-------------------|-----|------------|------|-----------------------|
| Repeatability | 0.0 | 0.0 to 0.0 | 0.0% | - |
| Between-run | 0.5 | | 1.3% | - |
| Between-day | 0.3 | | 0.6% | - |
| Within-laboratory | 0.6 | 0.5 to 0.8 | 1.4% | 12.5 |

Imprecision is less than allowable total imprecision: 30% upto 200U/L then 20%.

Level = Level 2

| Number of observations | 80 |
|------------------------|----|
| Number of runs | 40 |
| Number of days | 20 |
| Runs per day | 2 |
| Replicates per run | 2 |

Mean 127.8

| | SD | 95% CI | cv | Allowable Total SD |
|-------------------|-----|------------|------|-----------------------|
| Repeatability | 0.0 | 0.0 to 0.0 | 0.0% | ** |
| Between-run | 1.2 | | 1.0% | - |
| Between-day | 0.9 | | 0.7% | - |
| Within-laboratory | 1.5 | 1.2 to 2.0 | 1.2% | 38.3 |

Imprecision is less than allowable total imprecision: 30% upto 200U/L then 20%.



Theranos Confidential

Page 9 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13



LDT Validation Report Theranos Amylase Assay
CL RPT-14061

Rev:

Description

Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin Plasma

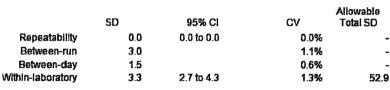
Originator: Curtis Schneider

Date: 10/15/2013

Level = Level 3

| Number of observations | 80 |
|------------------------|----|
| Number of runs | 40 |
| Number of days | 20 |
| Runs per day | 2 |
| Replicates per run | 2 |
| | |

Mean 264.3



Imprecision is less than allowable total imprecision: 30% upto 200U/L then 20%.

The percent CV reported as zeros in the above precision summary are most likely a consequence of rounding the values in Statis Pro.

IV. Clinical Validation

a. Method Comparison with Predicate (Accuracy/Comparability)

To test the accuracy of the assay on the Theranos System, forty eight (48) unique patient samples were screened on the predicate method (Siemens, Advia) and on the Theranos method. One sample was excluded as an outlier (mean absolute difference greater than 4). Using the predicate method twenty two (22) values were within the reference range (30 - 118 U/L), one (1) value was below the reference range, and twenty four (24) values were above the reference range. Based on the results of the data examination, either a simple linear regression or alternative procedures were used to estimate expected (average) bias and the confidence interval of expected bias at the desired medical decision level(s) as per CLSI guidance EP09-A2. StatisPro

Theranos Confidential

Page 10 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13

| | LDT Validation Report | Theranos Amylase Assay | Rev: |
|------------------------------|---------------------------------------------------------------------------------|------------------------|------|
| theranes | | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Hepar Plasma | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

was used for bias calculations. These estimates were compared with internal criteria to judge the acceptability of the Theranos method. Each sample was run in duplicate on the predicate, and the average used for comparison to the Theranos method. Some samples were stored before analysis on both methods. If the confidence interval for the predicted bias includes the defined acceptable bias or if the acceptable bias is greater than the higher limit of the confidence interval of the predicted bias the data do not show that the bias of the Theranos method is different from the acceptable bias or there is a high probability (97%) that the predicated bias is acceptable. respectively. The acceptable bias at each medical decision level was determined based on the total allowable error (TEa) minus the measured precision at the level closest to that decision level. Total allowable error (TEa) was taken from American Proficiency Institute (API) peer proficiency testing criteria or CLIA proficiency testing criteria for acceptable analytical performance as printed in the Federal Register February 28, 1992;57(40):7002-186, when available. The TEa for Amylase is 30%. The table below shows the allowable bias and precision at 3 levels (values shown in parentheses) and the corresponding closest medical decision limits.

Table 2. Allowable Bias and Precision at the Medical Decision Levels

| Medical Decision Levels (U/L) | 50 (41.6) | 120 (127.8) | 200 (264.3) |
|----------------------------------|-----------|-------------|-------------|
| Precision (%) | 0.6 | (0.7) | 0.6 |
| Allowable Bias (%) | 29.4 | 29.3 | 29.4 |

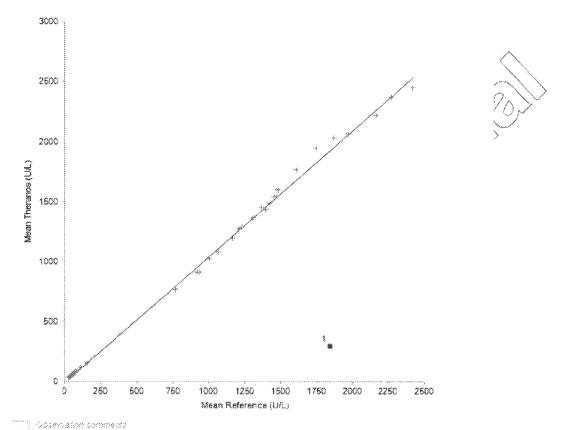
Theranos Confidential

Page 11 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13

| | LDT Validation | Theranos Amylase Assay | Rev: |
|-----------------------------|------------------------------------|---------------------------------------------|-----------|
| ineranos | Report | CL RPT-14061 | 1 |
| Description | Validation Report for Mi Plasma | odified Siemens Assay of Amylase in Lithiur | n Heparin |
| Originator: Curtis Schneide | er | Date: 10/15/2013 | |



1. Detected outliers greater than 4° mean absolute difference and 4 ° mean relative absolute difference.

Figure 1. Graph showing Theranos method versus Predicate Method (Siemens Advia).

Simple linear regression was used to establish a slope, intercept and an r^2 . The slope, intercept and clinical correlation were determined to be 1.05, -8.53 and 1.0 respectively.

Theranos Confidential

Page 12 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.



LDT Validation Report

Theranos Amylase Assay
CL RPT-14061

Rev:

Description

Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin Plasma

Originator: Curtis Schneider

Date: 10/15/2013

Comparability

CLS/ guideline EPG3-43-15 section 7

 Level ID
 Value
 Difference
 SE
 95% CI
 Allowable difference

 50.000000
 -6.0413767
 6.88466264*9.9077991 to 7.825045
 12.5000000

 120.000000
 -2.5585053
 6.57946428*5.8102266 to 10.69321
 30.0000000

 200.000000
 1.4219193
 6.25479039*1.1758752 to 14.01971
 60.0000000

Difference is less than allowable bias: 25% upto 2000/L then 30%.

The difference between the two methods is not greater than the allowable difference. The performance requirement is verified.

b. Transference and Verification of Reference Interval (Venous)

Reference ranges were modified by applying the regression equation to the lower and upper reference limits of existing reference interval to generate a new reference range. New reference ranges were verified using a minimum of twenty (20) new normal subjects

New reference ranges were verified using a total of forty four (44) new normal subjects with matched bithium heparin venous and finger sticks samples. For a reference range to pass verification, 95% of values should fall within the upper and lower reference limits and 5% or fewer values fall outside of the upper and lower reference limits. For venous verification 44 (100%) values fell within the new reference range and 0 (0%) values fell outside the new reference range. See graphs below for venous samples verification.

Theranos Confidential

Page 13 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

| theranos | LDT Validation Report | Theranos Amylase Assay | Rev: |
|------------------------------|------------------------------------------------------------------------------------|------------------------|------|
| | | CL RPT-14061 | 1 |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Hepar Plasma | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | |

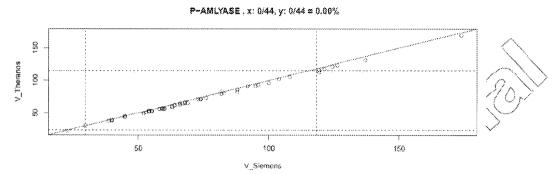


Figure 2. Graph showing venous sample reference range verification.

c. Verification of Reference Interval with Finger Stick Samples

New reference ranges were also verified with venous matched finger sticks (Lithium heparin) samples from a total of forty one (41) new normal subjects. The finger stick samples were collected in a Theranos blood collection device (BCD) configured with two separate Lithium heparin vessels. For finger stick verification 40 values (98%) fell within the new reference range and 1 value (2%) fell outside the new reference range. See graphs below for finger stick samples verification.

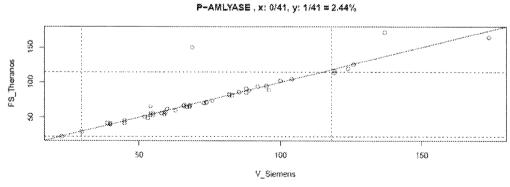


Figure 3. Graph showing Finger stick sample reference range verification.

| 79978 | |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 'S'in a man a c a ' a m shi al a m shi a l | Dama 14 of 16 |
| lucianos comincinai | rage 14 of 10 |
| GG | 4 |
| A ner vatnaminal anima a nama di antina a di anaminal an anamina da an | a Callega a managa ta tangga tangga ang managa ang matalaga a at matang tangga tangga tangga tangga tangga tang |

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13

| | LDT Validation | Theranos Amylase Assay | Rev: | |
|---|-----------------------------|-----------------------------------|---------------------------------------------|-----------|
| | Theranos | Report | CL RPT-14061 | 1 |
| * | Description | Validation Report for M Plasma | odified Siemens Assay of Amylase in Lithiur | n Heparin |
| | Originator: Curtis Schneide | r | Date: 10/15/2013 | |

The new reference range for finger stick Amylase was determined to be 23 - 115 U/L.

VI. Stability

a. Reagents

On-board Reagent Stability

| System | Stability | | | |
|-----------------|-----------|--|--|--|
| ADVIA 1200 | 30 days | | | |
| ADVIA 1650/1800 | 50 days | | | |
| ADVIA 2400 | 50 days | | | |
| | | | | |

For all systems, unopened reagents are stable until the expiration date printed on the product label when stored at 2°C - 8°C. Do not freeze the reagents.

For additional details, refer to the Methods Introduction section of the system-specific Operator's Guide.

b. Sample

Plasma samples for amytase analysis are stable for I week at 2-8 °C, or at least 90 days at -20 °C.

c. Calibrators

Calibration of this method uses a fixed system Factor Value (FV), which is based on the established molar extinction coefficient of p-nitrophenol at 410 nm, adjusted by patient sample correlation to the IFCC reference method. One unit of amylase activity is defined as that amount of enzyme that catalyzes the production of 1 µmol of p-nitrophenol per minute under the conditions of the method.

Theranos Confidential

Page 15 of 16

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.

TMP-00009 Rev. A, Released 08/01/13

| | LDT Validation Report | Theranos Amylase Assay | Rev: | |
|------------------------------|-----------------------------------------------------------------------------------|------------------------|------|--|
| meranos | | CL RPT-14061 | 1 | |
| Description | Validation Report for Modified Siemens Assay of Amylase in Lithium Heparin Plasma | | | |
| Originator: Curtis Schneider | | Date: 10/15/2013 | | |

| REVISION HISTORY | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|-------------------------------------------|--|
| Revision Level | Effective Date | Initiator | ECO Number | |
| A | 11/10/2013 | A. Rosendorff | CL ECO-00118 | |
| | | | | |
| | | | | |
| Section Number | Description and Justification of Changes | | | |
| All | Initial Release | \sim | (73) | |
| | | | N. C. | |
| | | <u> </u> | | |
| | | | | |
| | | | | |
| | | | ۵ | |
| | | | \sim | |
| | | | | |
| | | | $\langle \rangle \langle \rangle$ | |
| | | | > | |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| in the state of th | | | | |

| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
|-----------------------|----------------------------------------|
| Theranos Confidential | Page 16 of 16 |

Any retransmissions, reproductions, dissemination or other use of these materials by persons or entities other than the intended recipient is prohibited. This document supersedes all earlier or previous documents unless approved in writing.