# CERTIFICATE OF ANALYSIS

**Product Description**:      Liver Injury Panel 1 (rat) Kit

**Kit Catalog Numbers**:      K15187D-series

**Kit Lot Number**:      K0040406

**Expiration Date**:      31 Oct 2019

## Acceptance Data/ Percent Recovery Specifications:

| Spot | Name | Calibrator Recovery | CV | Liver Injury Panel 1 (rat) Control 1 Recovery | CV | Liver Injury Panel 1 (rat) Control 2 Recovery | CV | Liver Injury Panel 1 (rat) Control 3 Recovery | CV |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Arginase-1 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 4 | alphaGST | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |

## Acceptance Data/ Non Specific Binding Specifications:

| Spot | Name | NSB Spec |
|---|---|---|
| 1 | Arginase-1 | < 20.0% |
| 4 | alphaGST | < 1.0% |

## Stock Concentration of Material Tested :

| Spot | Name | Item | Conc | Units |
|---|---|---|---|---|
| 1 | Arginase-1 | 20X Calibrator | 4800 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 1 | 338 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 2 | 49.3 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 3 | 6.2 | ng/mL |
| 4 | alphaGST | 20X Calibrator | 60200 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 1 | 4064 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 2 | 600 | ng/mL |
| | | Liver Injury Panel 1 (rat) Control 3 | 111 | ng/mL |

Control data was generated utilizing internal reference controls.

Concentrations provided in this table refer to the stock concentration of the calibrators. For top of the standard curve concentrations, please refer to the Standard Curve Data

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## Standard Curve Data:

| Arginase-1 - Spot 1 | | |
|---|---|---|
| Conc. ng/mL | ECL Signal | %CV |
| 240 | 510,000 | 3.1 |
| 80.0 | 120,000 | 4.0 |
| 26.7 | 28,000 | 4.5 |
| 8.89 | 7,920 | 7.0 |
| 2.96 | 2,530 | 6.5 |
| 0.988 | 932 | 4.3 |
| 0.329 | 404 | 4.4 |
| 0.00 | 161 | 6.5 |

| alphaGST - Spot 4 | | |
|---|---|---|
| Conc. ng/mL | ECL Signal | %CV |
| 3010 | 16,500 | 4.6 |
| 1000 | 13,600 | 4.8 |
| 334 | 9,160 | 4.3 |
| 111 | 4,760 | 5.1 |
| 37.2 | 2,190 | 5.0 |
| 12.4 | 994 | 6.6 |
| 4.13 | 547 | 6.1 |
| 0.00 | 296 | 6.5 |

## Components:

| Description | Lot Number | Storage Temperature | Expiration Date |
|---|---|---|---|
| Liver Injury Panel 1 (rat) Plate | Z0056032 | 2-8°C | 31 Jan 2020 |
| Anti-rat Arginase-1 Antibody | D0040727 | 2-8°C | 31 Jan 2020 |
| Anti-rat alphaGST Antibody | D0040728 | 2-8°C | 31 Mar 2020 |
| Liver Injury Panel 1 (rat) Calibrator Blend | A0040201 | ≤ -70°C | 31 Mar 2020 |
| Blocker A Kit | Not Kit Specific | Not Kit Specific | N/A |
| Diluent 100 | Y0270249 | 2-8°C | 31 Oct 2019 |
| Blocker D-R | R0060022 | ≤ -10°C | 31 Oct 2019 |
| MSD Read Buffer T | Not Kit Specific | Not Kit Specific | N/A |

## Statement:

The above product is intended for Research Use Only. Not for use in Diagnostic Procedures.

| | Name | Function | Signature | Date |
|---|---|---|---|---|
| Review/Approval | Dawn Stollar | Quality Assurance | *Dawn Stollar* | 07 MAR 2019 |