

DILUTER / DISPENSER OPERATIONAL QUALIFICATION PERFORMANCE TEST REPORT

| | |
|--------------------|------------|
| DATE OF VALIDATION | xx.xx.xxxx |
| VALIDATOR | xxxxxxx |

TESTED DEVICE

| | |
|--------------|----------|
| CUSTOMER | |
| MANUFACTURER | Hamilton |
| MODEL | ML 530B |
| SERIAL NO | MD91xxxx |

LIQUID

| | |
|------------------|------------------|
| TYPE | H2O |
| TEMPERATURE | 23,9 °C |
| extended DENSITY | 0,996281 mg / µl |

BALANCE

| | |
|--------------|-------------------------|
| MANUFACTURER | Kern |
| MODEL | ABS 2204 |
| SERIAL NO | WB 0100005 |
| TRACEABLE TO | B-123 DKD-k-11801 05-09 |

WEIGHT

| | |
|--------------|--------------------------|
| MANUFACTURER | Kern |
| MODEL | 200g |
| SERIAL NO | G012971 |
| TRACEABLE TO | G1-429 DKD-K-11801 04-09 |

THERMOMETER

| | |
|--------------|------------------------|
| MANUFACTURER | Fluke |
| MODEL | 51 III |
| SERIAL NO | 81380019 |
| TRACEABLE TO | 5060 DKD-K-07001 05-08 |

LEFT SYRINGE

RIGHT SYRINGE

| | | | | | | | |
|-----------------|------|------|-----|------|-----|-----|----|
| MOUNTED SYRINGE | 2500 | | | 250 | | | µl |
| | 100% | 50% | 10% | 100% | 50% | 10% | |
| TEST VOLUME | 2500 | 1250 | 250 | 250 | 125 | 25 | µl |

GRAVIMETRIC MEASUREMENTS

| | | | | | | | |
|----------------|--------|--------|-------|-------|-------|------|----|
| MEASUREMENT 1 | 2492,4 | 1246,5 | 248,3 | 248,4 | 124,5 | 24,7 | mg |
| MEASUREMENT 2 | 2494,4 | 1246,5 | 248,1 | 248,7 | 124,1 | 24,6 | mg |
| MEASUREMENT 3 | 2494,6 | 1246,1 | 248,4 | 248,6 | 124,1 | 24,8 | mg |
| MEASUREMENT 4 | 2494,5 | 1246,3 | 248,4 | 248,6 | 124,3 | 24,7 | mg |
| MEASUREMENT 5 | 2494,6 | 1246,5 | 248,3 | 248,4 | 124,3 | 24,8 | mg |
| MEASUREMENT 6 | 2494,4 | 1246,1 | 248,4 | 248,6 | 124,1 | 24,6 | mg |
| MEASUREMENT 7 | 2494,6 | 1246,5 | 248,3 | 248,7 | 124,1 | 24,7 | mg |
| MEASUREMENT 8 | 2494,4 | 1246,2 | 248,1 | 248,6 | 124,5 | 24,6 | mg |
| MEASUREMENT 9 | 2494,5 | 1246,5 | 248,4 | 248,6 | 124,5 | 24,6 | mg |
| MEASUREMENT 10 | 2494,6 | 1246,1 | 248,3 | 248,7 | 124,3 | 24,7 | mg |

| | | | | | | | |
|---------------------|---------|---------|--------|--------|--------|-------|----|
| MEAN MASS | 2494,30 | 1246,33 | 248,30 | 248,59 | 124,28 | 24,68 | mg |
| ABS. STD DEVIATION | 0,67 | 0,19 | 0,12 | 0,11 | 0,18 | 0,08 | mg |
| EXPERIMENTAL VOLUME | 2503,61 | 1250,98 | 249,23 | 249,52 | 124,74 | 24,77 | µl |

RESULTS

| | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|---|
| CALCULATED ACCURACY | 0,14 | 0,08 | 0,31 | 0,19 | 0,21 | 0,92 | % |
| SPECIFIED ACCURACY | <= 0,5 | <= 2,0 | <= 2,0 | <= 0,5 | <= 2,0 | <= 2,0 | % |
| REL. STD DEVIATION | 0,03 | 0,02 | 0,05 | 0,04 | 0,14 | 0,32 | % |
| SPECIFIED STD DEV | <= 0,3 | <= 2,0 | <= 2,0 | <= 0,3 | <= 2,0 | <= 2,0 | % |

AUTHORIZED BY

PASS

FAIL