RUDOLPH RESEARCH ANALYTICAL

VeriLink Rx®

TPN AND DRUG DIVERSION SYSTEM

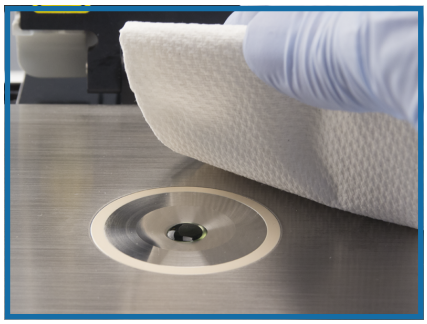
Validation of System (Basic Test each Day)

info@rudolphresearch.com | Rudolphresearch.com | P. 973-584-1558 | F. 973-584-5440

VeriLinkRx® TPN AND DRUG DIVERSION SYSTEM — Validation of System (Basic Test each Day)

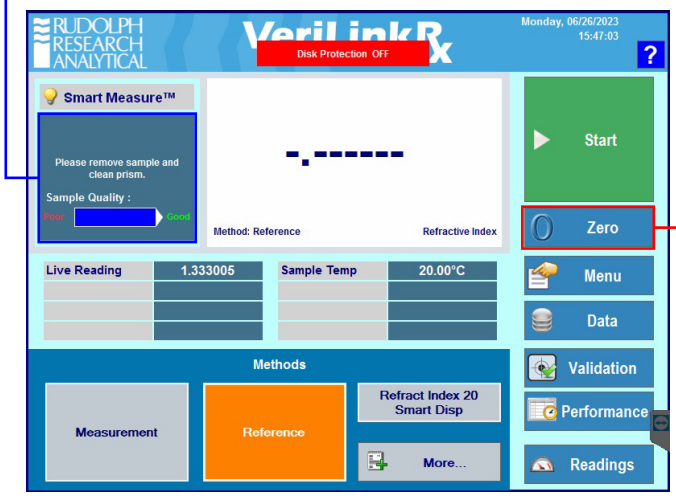
1.) Clean Prism

Clean prism three times with distilled water, dry lint free towel or Kimwipe between rinses



2.) Zero

Place USP sterile water on prism (**BLUE STATUS BAR** indicates proper amount of sample loading).

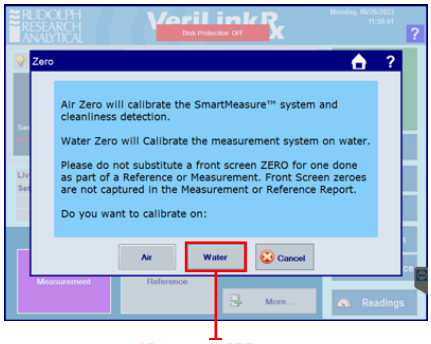


Press Zero Button

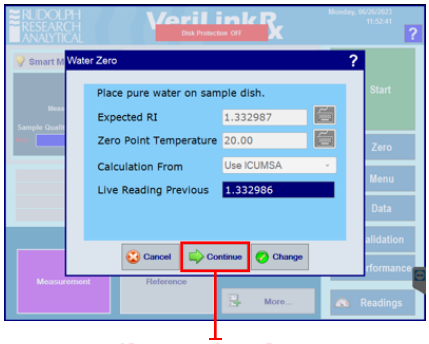
2b.) Zero

Zero with USP water before Validation. ****Note the RI of USP water is 1.332987.**

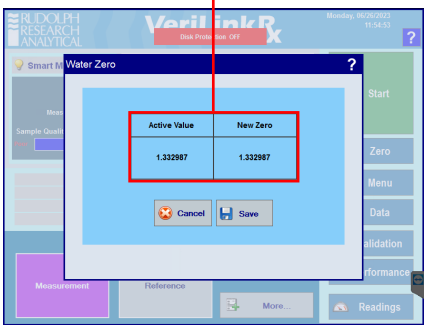
****Clean the prism if the zero is abnormally offset ca. +/- 0.000010, as there may have been residual salts on the prism**



Choose Water

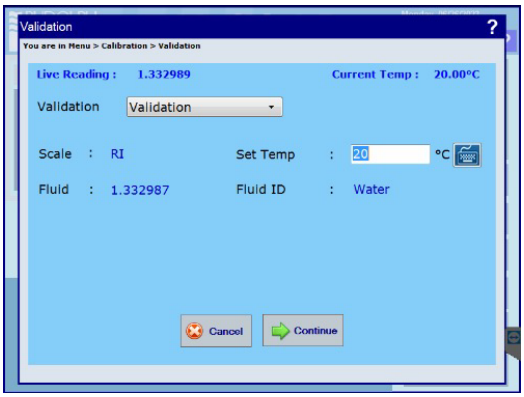


Choose Continue



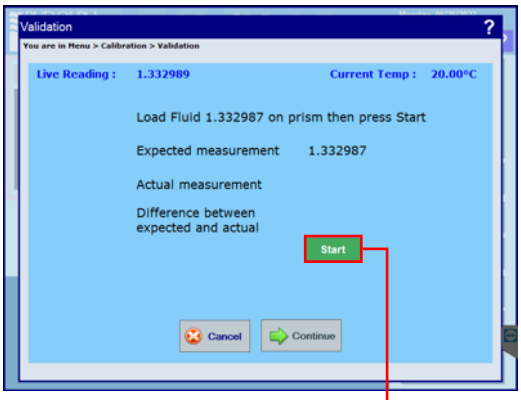
3.) Daily Calibration Validation

Choose Validation

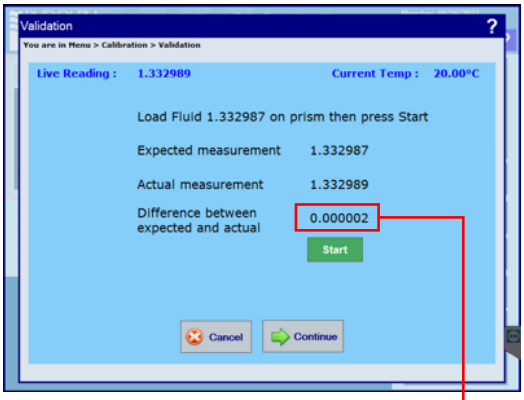


Load Water onto clean prism.

VeriLink Rx® TPN AND DRUG DIVERSION SYSTEM — Validation of System (Basic Test each Day)

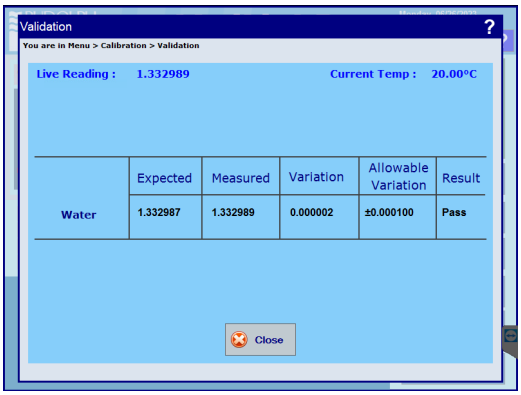


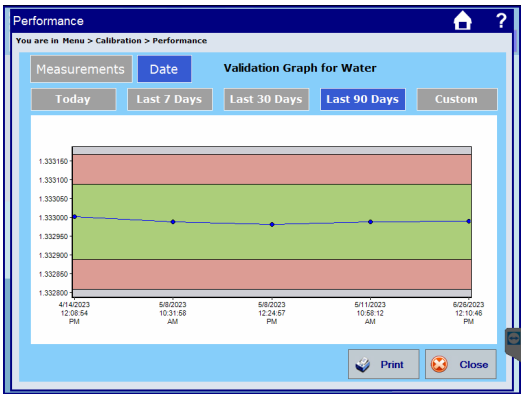
Press Start



Observe difference between Expected and Actual (Must be less than 0.00001)

Validation Pass and Performance (Choose Performance. Choose Historical Graph)





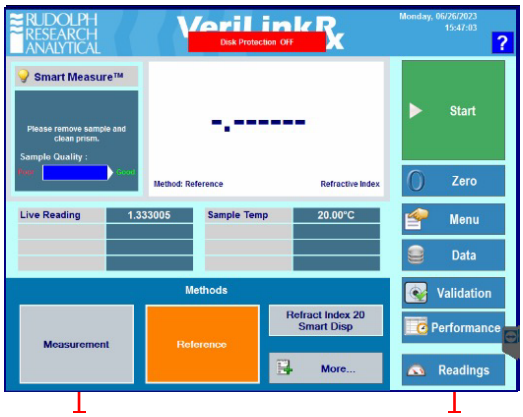
If validation fails, clean the prism with water and alcohol wipes.

VeriLinkRx® TPN AND DRUG DIVERSION SYSTEM — Testing a Sample

1.) Add test sample

Place sample on prism

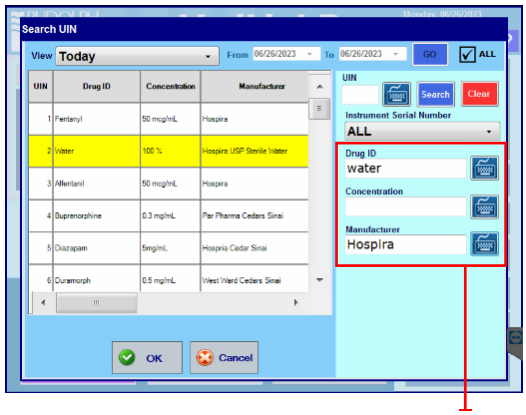
2.) Highlight Measurement Method Push Start.



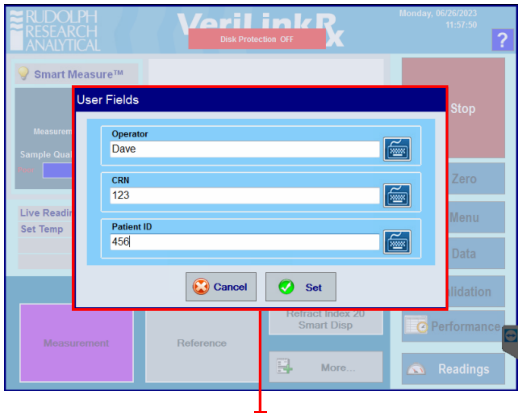
Highlight Measurement

Press Start

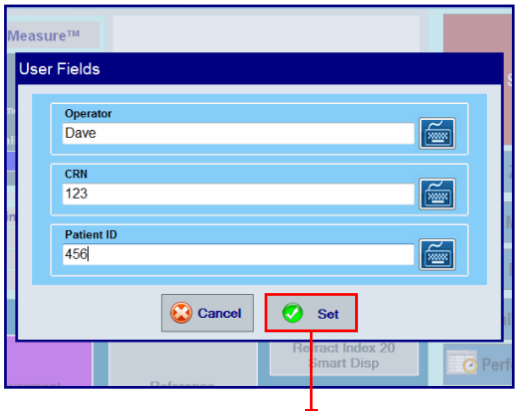
List of sample types appears.
Choose the sample type and concentration.



Type in Drug ID, Concentration, and Manufacturer of tested sample.

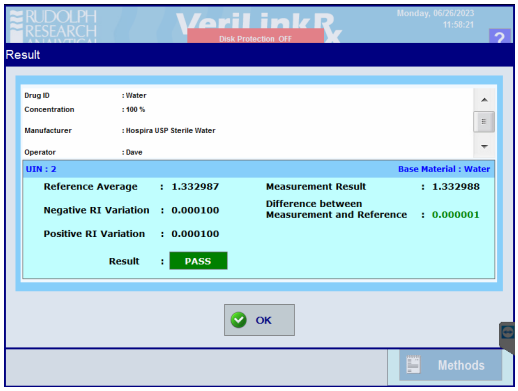


Type in Tester's name, ID, Patient ID, or any other identifiers.

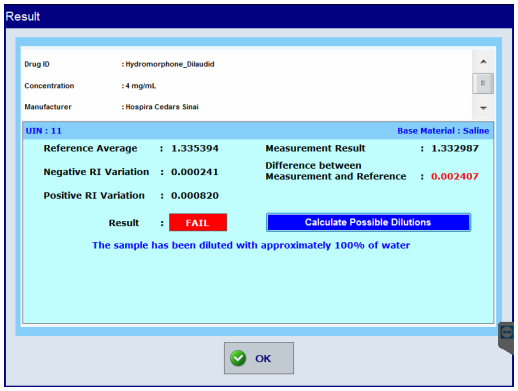


Push Set. Wait for results screen to appear. (Measurement delay dependent on sample being tested—10 to 60 seconds)

Sample Pass Screen



Sample Fail Screen



VeriLinkRx® TPN AND DRUG DIVERSION SYSTEM — Saving a Sample to Library (Reference) Database

1.) Clean Prism

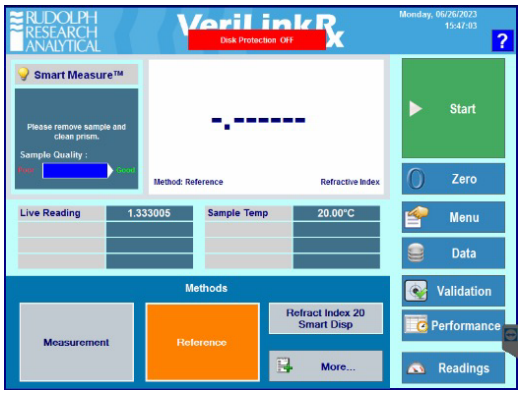
Clean prism three times with distilled water, wipe thoroughly with Alcohol wipe. Allow to dry.

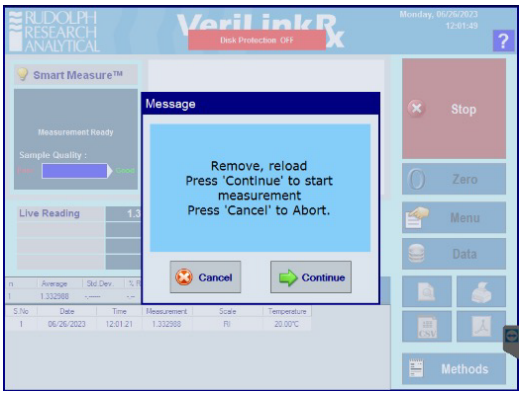
2.) Zero

Zero the instrument on water as per page 1.

3.) Add Reference Sample

A.) Place pure sample on prism from. Fill entire prism area with sample.
B.) Select **Reference** method. Push **Start**.
C.) Follow screen instructions, and reload sample 3 times.
D.) All three measurements must be nearly identical in RI value.

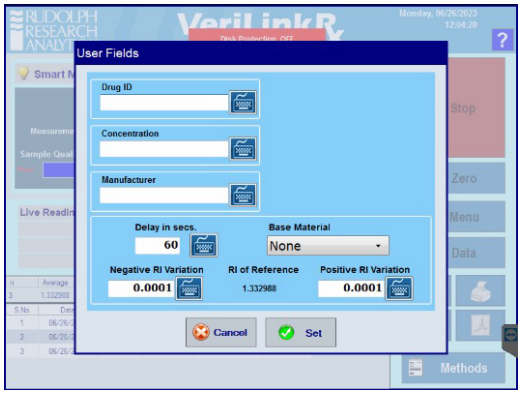


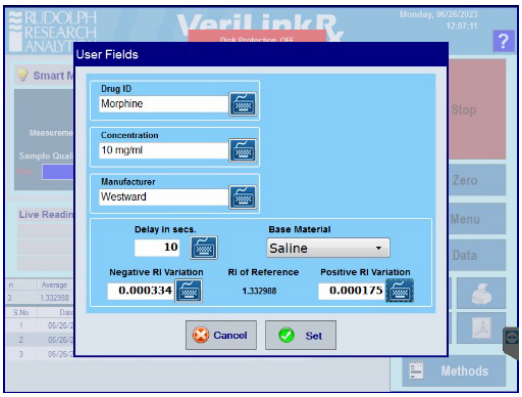


After first measurement, this box appears. Clean and reload the sample.

4.) Add information for new reference drug.

Type in Drug ID, Concentration, Manufacturer and other custom field.
Add the base solution of the drug (water or saline).





5.) To Determine Alarm conditions

Drug ID	CONC	Manufacturer	RI of Drug	water	water dif	saline	saline dif	Alarm (-) RI 10 % water dilution ** do not set alarm below 0.000008	Alarm (+) RI 10 % saline dilution **do not set alarm below 0.000008	t1	t2	Final Delay set (s)	Background Solution
Duramorph	1 mg/mL	West Ward Cedars Sinai	1.334572	1.332987	-0.001585	1.334578	0.000006	0.000159	0.000001	10	40	**40**	saline
Ephedrine	**5 mg/mL**	**QuVa Pharma**	**1.335267**	1.332987	-0.002280	1.334578	-0.000689	0.000228	0.000069	10	10	**10**	saline
Fentanyl	**50 mcg/mL**	**Hospria, West Ward, Akorn, Par**	**1.333007**	1.332987	-0.000020	1.334578	0.001571	0.000002	0.000157	40	10	**40**	water
fentanyl dilution	10 mcg/ml	hospirs/mmc Good Samaritan	1.33427	1.332987	-0.001283	1.334578	0.000308	0.000128	0.000031	10	10	**10**	saline

A.) Record the Average RI, and input into the VeriLinkRx Narcotics and Alarm conditions calculator (Excel)
B.) Drag down water and salt values, drag rows for calculations. Use these values as the positive and negative alarm conditions for your new sample
C.) Record the base material solution of drug.
D.) **Note. Do not set an alarm condition less than 0.000008

6.) Populate custom fields

Populate custom fields, and save these values into VeriLInkRx software. These can be later updated and/or corrected later in Library Manager.