The VETSCAN® VS2 Chemistry Analyzer has an extremely sophisticated intelligent Quality Control (iQC) system that combines with proprietary algorithms to ensure quality and dependable results. iQC is a series of automatic checks that verify the chemistry, optics, and electronic functions of the analyzer during each run.

**Save Time & Money**
iQC reduces labor and material costs required with other analyzer controls and calibrations. Having iQC is like having a service and maintenance agreement at your fingertips, but at no additional cost.

**Rocket Science Delivered Right to Your Lab**
iQC protects you and your patient by automatically ensuring your VS2 is working properly and providing accurate results on every run.

**Barcode**
The barcode on the top surface of each rotor encodes the type of test panel, the expiration date, and the reagent calibration factors. At the beginning of the run, iQC verifies the integrity of the information in the barcode by the use of a cyclic redundancy check. It then checks the expiration date of the rotor against the analyzer’s clock to verify that the expiration date has not been exceeded. The calibration information is transferred to the analyzer’s memory to be used in the calculation of results.

**Fluidics**
The metering and movement of fluids (sample, diluent, and diluted sample) are controlled at all stages of the run by the analyzer’s motor and design features of the rotor. The analyzer verifies the presence of adequate sample volume by sensing overflow into the “sufficient sample” cuvette. iQC will alert the operator if the presence of sufficient sample cannot be verified.

**iQC Reactions**
Chemistry QC reagent beads reveal and quantify any degradation of the analyte-specific reagents in the rotor due to suboptimal storage conditions. If degradation exceeds a defined level, the run is cancelled or suppressed.

**Sample Evaluation**
VS2 iQC evaluates the quality of the sample and reports the measured values for each physical interferent (hemolysis, lipemia, and icterus). When a certain limit is reached for one or more analytes, the results are suppressed for those analytes only. The level of interference is indicated on the result and troubleshooting reports. This suppressed result will be indicated with HEM, LIP or ICT on the result report. There are various other causes for suppressions that may not be related to physical interference, which will be indicated with ~~~.

When a result is suppressed, the VS2 provides a troubleshooting report to supplement the patient results. The troubleshooting report will list an estimated value for the suppressed analyte with an alert indicator ("H" = HEM, "L" = LIP, "I" = ICT, or "~" = ~~~). Estimated results on the troubleshooting report should be used with caution, as the value was suppressed from the patient result due to some level of interference. The degree of impact varies from sample to sample, and thus a percentage of impact cannot be provided. Therefore, it is best to review the patient’s clinical symptoms and deem if the result presented on the troubleshooting report is reasonable for use.
Interpreting VETSCAN VS2 Results

**Patient Results**

- Physical interference indices
- Run-specific information
- An asterisk symbol indicates that the result is outside the reference range
- The result of this analyte is suppressed due to hemolysis
- Physical interference indices

**Troubleshooting Report**

- Run-specific information
- Run-specific technical codes
- Technical codes for suppressed values
- Analyzer estimated value for the suppressed analyte with an “H” indicator for hemolysis
- Quantitative physical interference values

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**Reporting Physical Interferences is Better Medicine**

A result should never be reported at the expense of accuracy.

iQC automatically suppresses a single chemistry analyte or the entire panel if it detects uncharacteristic performance, and immediately alerts the operator to any problems.

The VETSCAN VS2 reports dependable results AND sample integrity so you have all the information needed to make the right clinical decisions for your patients.

*For Zoetis Technical Support interpretation only. Always contact technical support for assistance interpreting Troubleshooting Report details.*

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