



intelligent Quality Control... or as we like to call it, **iQC**

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

VetScan VS2 Critical Care Plus			
08 Oct 2016			07:45 AM
Sample Type:			Dog
Patient ID:			12201
Rotor Lot Number:			6283AB0
Serial Number:			0000V27059
.....			
ALT	189 *	10-118	U/L
GLU	115 *	60-110	mg/dL
BUN	15	7-25	mg/dL
CRE	0.5	0.3-1.4	mg/dL
NA+	146	138-160	mmo1/L
K+	HEM	3.7-5.8	mmo1/L
CL-	110	106-120	mmo1/L
tCO2	17	12-27	mmo1/L
QC OK			
HEM 3+	LIP 3+	ICT 0	

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*

VetScan VS2 Critical Care Plus			
08 Oct 2016			07:45 AM
Sample Type:			Dog
Patient ID:			12201
Rotor Lot Number:			6283AB0
Serial Number:			0000V27059
.....			
01	EFEF	FFFF	8FFF FFFF
02	CFEF	FFFF	C3FA BEFF
03	0000	0000	0000 0000
04	0000	0000	0000 0000
05	0000	0000	8200 0000
06	0000		
ALT	189 *	0000 0003	U/L
GLU	115 *	0000 0000	mg/dL
BUN	15	0000 0000	mg/dL
CRE	0.5	0000 0000	mg/dL
NA+	146	0000 0000	mmo1/L
K+	4.4 H	0000 0000	mmo1/L
CL-	110	0000 0000	mmo1/L
tCO2	17	0000 0000	mmo1/L
RQC: 100			
HEM 305	LIP 734	ICT 0	
Version:			3.1.23

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

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.

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