

## **KOVA Liqua-Trol® with Microscopics**

## Level I (Abnormal) Urinalysis Control

## Level II (Normal with hCG) Urinalysis Control

KOVA Liqua-Ti	rol Lot No: K306712	Expiration	on Date: <b>2025-12-31</b>	Lot No: <b>K306700</b> Expiration Date: <b>2025-11-30</b>						
	REA	GENT TEST STRIP RESULTS <sup>1</sup>		REAGENT TEST STRIP RESULTS <sup>1</sup>						
CONSTITUENT	AUTION MAX AX-4280 AUTION MAX AX-4030 SUPER AUTION EX SA-4250	AUTION JET AJ-4270 AUTION MINI AM-4290 AUTION MICRO PU-4210 AUTION ELEVEN AE-4020 POCKETCHEM UA PU-4010	UC-MAX <sup>5</sup> LabUReader Plus 2 <sup>5</sup> DocUReader 2 Pro <sup>5</sup>	CONSTITUENT	AUTION MAX AX-4280 AUTION MAX AX-4030 SUPER AUTION EX SA-4250	AUTION JET AJ-4270 AUTION MINI AM-4290 AUTION MICRO PU-4210 AUTION ELEVEN AE-4020 POCKETCHEM UA PU-4010	UC-MAX LabUReader Plus 2 DocUReader 2 Pro			
Glucose	+ 2 - + 4	+ 2 - + 4	<u>+</u> - + 4	Glucose	- Negative	- Normal	Normal			
Protein	+ 1 - + 4	+ 1 - + 4	<u>+</u> - + 3	Protein	- Negative	- Negative	Negative			
Bilirubin	+ 1 - + 4	+ 1 - + 4	<u>+</u> - + 3	Bilirubin	- Negative	- Negative	Negative			
Urobilinogen <sup>4</sup>	Normal - + 3	Normal - + 3	Normal - + 4	Urobilinogen	<u>+</u> Normal	Normal	Normal			
рН	7.0 - 9.0	7.0 - 9.0	6.0 - 8.0	рН	5.5 - 7.5	5.5 - 7.5	5.5 - 7.5			
Specific Gravity	1.010 - > 1.030	1.010 - > 1.030	1.010 - > 1.030	Specific Gravity	1.000 - 1.020	1.000 - 1.020	< 1.005 - 1.020			
Blood (hemoglobin)	+ 1 - + 3	+ 1 - + 3	+ 1 - + 3	Blood (hemoglobin)	- Negative	- Negative	Negative			
Ketones	+ 2 - + 4	+ 2 - + 4	<u>+</u> - + 3	Ketones	- Negative	- Negative	Negative			
Nitrite	+ 1 - + 2	+ 1 - + 2	+ 1	Nitrite	- Negative	- Negative	Negative			
Leukocyte Esterase <sup>3</sup>	25 - 500 LEU/μL	25 - 500 LEU/μL	25 - 500 LEU/μL	Leukocyte Esterase <sup>3</sup>	- Negative	- Negative	Negative			
Ascorbic Acid				Ascorbic Acid						
	Le	vel I		Level II						
PHYSICAL CH	IARACTERISTICS	MICROSCOPIC QUAI CELL COUN		PHYSICAL CHARACTERISTICS MICROSCOPIC QUA CELL COUI						

_				CEL	L COUNTS	2, 3						CEL	L COUNTS	<b>3</b> <sup>2</sup> , <sup>3</sup>	
Property	Value Range	Method	Constituent	Fixed Rotor	Swing Rotor	sediMAX	sediMax(≥ sw v3.2) sediMax 2 sediMax con TRUST sediMAX LITE sediMAx conTRUST PRO	Property	Value Range	Method	Constituent	Fixed Rotor	Swing Rotor	sediMAX (< SW v3.2)	sediMax(≥ sw v3.2) sediMax 2 sediMax con TRUST sediMAX LITE sediMAx conTRUST PRO
Appearance	Clear - Slightly Cloud	ly Visual	Qualitative <sup>a</sup>	40.00				Appearance	Clear	Visual	Qualitative <sup>a</sup>	0 1	0 1		
Color	Amber - Red	Visual	Red Cells/hpf White Cells/hpf	16 - 66 16 - 60	63 - 106 48 - 101			Color	Yellow - Green	Visual	Red Cells/hpf White Cells/hp	0 - 1 f 0 - 7	0 - 1 0 - 11		
Specific Gravity		Refractometer (Room Temp.)	Quantitative <sup>b</sup> Red Cells/µL White Cells/µL	170 - 280 165 - 265	308 - 462 278 - 405			Specific Gravity	1.005 - 1.009	Refractometer (Room Temp.)	Quantitative <sup>b</sup> Red Cells/µL White Cells/µL	0 - 1 0 - 10	0 - 1 1 - 25	0 - 5 0 - 20	0 - 5 0 - 40
Osmolality	800 - 900	mOsm Freezing Pt. Depression	Crystals *	Present	Present			Osmolality	275 - 375	mOsm Freezing Pt. Depression	Crystal **	≤ 1	≤ 1		
рН	7.0 - 8.0	pH meter	Bacteria	Present	Present			рН	6.0 - 7.0	pH meter	Casts (low pow	ver) < 1	< 1		
			Casts (low powe	r) < 1	< 1										
* Calcium oxalate, calcium phosphate, amorphous material.									** Urinary artifacts may be present.						

\* Calcium oxalate, calcium phosphate, amorphous material. Urinary artifacts may be present. Any mucus threads observed are artifactual.

- 1. Methodology changes or variability in reagent strip lots can influence Liqua-Trol recoveries. It is recommended that the values listed here be used as guidelines until the laboratory has established its own quality control ranges.
- 2. The cell count ranges apply to a microscopic field viewed using a 10X wide eyepiece and a 40X objective lens. The approximate diameter of such a field under high power magnification is 0.50 mm; therefore, an appropriate correction factor should be applied when a microscope with a different field size is used in order to maintain consistency in reporting results.
- 3. A microscopic examination of the sedimentation is recommended in conjunction with a screening test for leukocyte esterase to detect lysed leukocytes. Testing for leukocyte esterase should not be used to replace microscopic analysis as significant and often critical pathologically diagnostic elements will go undetected.
- 4. The flag "!" may occur even with correct results for urobilinogen.
- 5. An atypical visual result may be noted on the urobilinogen, proteins or leukocyte esterase pads: use the color intensity to interpret the results. The atypical urobilinogen coloration may give a false negative result in case of automated reading.

## NOTE: Particulate may form during storage. Gently swirl the control before use to assure good mixing and resuspension of the microscopic constituents.

- a Using KOVA® System with KOVA® Slide II, KOVA® Glasstic® Slide 10
- b Using KOVA® System with KOVA® Glasstic® Slide 10 with Grids



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