



Accuracy of Spectra 1 tests

Manufacturer	JBL			Salifert			Yokuchi		
Test	Calibrated range	Accuracy	Remark	Calibrated range	Accuracy	Remark	Calibrated range	Accuracy	Remark
NO3	0-50 ppm	+/-2.50 ppm	Store in a dry place!	0-50 ppm	+/-3.50 ppm	There can be significant differences between different production dates.	0-50 ppm	+/-2.50 ppm	
PO4	0-3 ppm	+/-0.10 ppm					0-3 ppm	+/-0.10 ppm	
K	0-35 ppm	+/-3.00 ppm	Rinse the cuvette shortly after measurement!	-----			0-50 ppm	+/-3.00 ppm	Rinse the cuvette shortly after measurement!
Fe	0-2 ppm	+/-0.08 ppm	Reagent prone to browning!	-----			0-2 ppm	+/-0.08 ppm	
NH4/NH3	0-2 ppm	+/-0.15 ppm		0-2 ppm		Temporarily unavailable due to inconsistent measurement results.	-----		
NO2	0-5 ppm	+/-0.05 ppm		0-5 ppm	+/-0.08 ppm		-----		
SiO2	0-10 ppm	0-4: +/-0.10 ppm 4-10: +/-0.25 ppm	Pay attention to accurate dosing! Use the small measuring scoop, filled level!	0-10	+/-0.10 ppm		-----		
pH	4-9	+/-0.20 ppm	pH 3–10 test; further improvements are expected for more accurate measurement results.	-----			-----		

CO2 Indicator Solution				Calibrated range: 20-40 ppm		Accuracy: +/-3 ppm		We performed the tests using Green Aqua CO2 indicator solution, but it works with any 4 dKH bromothymol blue solution. Do not mix it with aquarium water! It is recommended to refill the drop checker with fresh solution every two months.	
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The measurements were performed at temperatures between 22 and 25 °C. The stated accuracy figures represent the best precision achievable with the Spectra1 photometer and do not account for user error or the condition of the reagents.