



Technical Note 125

DS-11 Advantages vs. NanoDrop™ 2000

Introduction

The DeNovix® DS-11 Spectrophotometer is a compact, stand-alone instrument with clear advantages over leading competitors. The table below highlights some of the key features and advantages of the DS-11 versus the NanoDrop™ 2000.

	DeNovix DS-11	Advantage	NanoDrop™ 2000	Advantage
Fluorescence Option	Yes - DS-11 FX and DS-11 FX+ (UV,Blue,Red,Green)	√	None	-
Warranty	2 years	√	1 year	-
Built-in Connectivity	Yes, WiFi, Ethernet, USB	√	USB only	-
SmartPath® Technology with Bridge Testing®*	Yes	√	No	-
Protein Performance	Outstanding	√	Only if sample column is formed properly*	-
Bench Space Required	20 x 33 cm	√	50 x 22 cm Instrument and Laptop	-
Microvolume Pathlength	0.5 mm	√	1.0 mm*	-
Max Concentration	dsDNA: 37,500 ng/μL IgG: 547 mg/mL	√	dsDNA: 15,000 ng/μL IgG: 219 mg/mL	-
Absorbance Range	0.015 – 750 AU	√	0.04 – 300 AU	-
AutoRun Feature	Yes	√	No	-
Pathlength Control	Precision screw driven by high resolution servo motor	√	Adjustment screw driven by stepper motor	-
Built-in Computer	Yes	√	No, requires a PC	-
Operating System	Android™	√	Windows® with version specific requirements	-
Display Type	7" HD Color Touchscreen Glove Compatible	√	None	-
Software	Preconfigured EasyApps®	√	Standard Windows® Interface	-
Color Availability	Arctic White, Brazilian Blue, Tungsten Silver, Fire Red	√	Beige	-
Design	Modern look	√	Dated	-
Recalibration Required	No	√	Recommended	-

*An erroneous measurement can occur if an insufficient sample volume is pipetted for the microvolume measurement. In addition, many microvolume

spectrophotometers, such as the NanoDrop™ 2000, can exhibit a phenomenon referred to as “unconditioning.” This is when the surface loses its hydrophobic property, and droplets spread out instead of beading up. The NanoDrop™ 2000 does not alert the user to a broken column and allows erroneous measurements to go undetected. The DS-11 SmartPath® Technology detects if a sample does not fully bridge the path gap and automatically compensates for the issue in real time.



Summary

The next generation DeNovix DS-11 introduces new features to the microvolume spectrophotometer market, providing more confidence for a broader range of sample types and sample concentrations.

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