
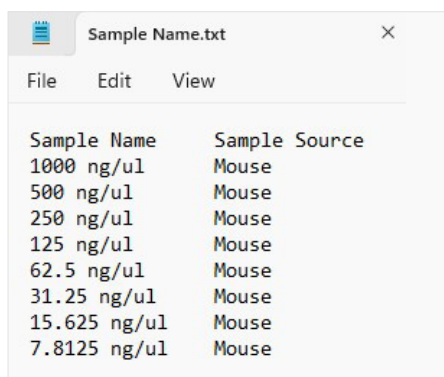


NanoDrop Eight sample ID setup guide

Introduction

The Thermo Scientific™ NanoDrop™ Eight Microvolume UV-Vis Spectrophotometer offers several options for entering sample IDs. When making only a few measurements, it is easy to simply type in sample names prior to or immediately following measurements. When measuring more than a few samples, the NanoDrop Eight software enables the option to load a list of predefined sample IDs or names by selecting the ID icon .

Sample ID files may be created in Microsoft Excel or Notepad and saved as a .txt file. Sample ID files can be stored in the following folder path: C:\Program Files\Thermo Scientific\NanoDrop Eight\Client\resources\samplidFolder. When creating a file, enter all sample names in one column as shown in Figure 1.



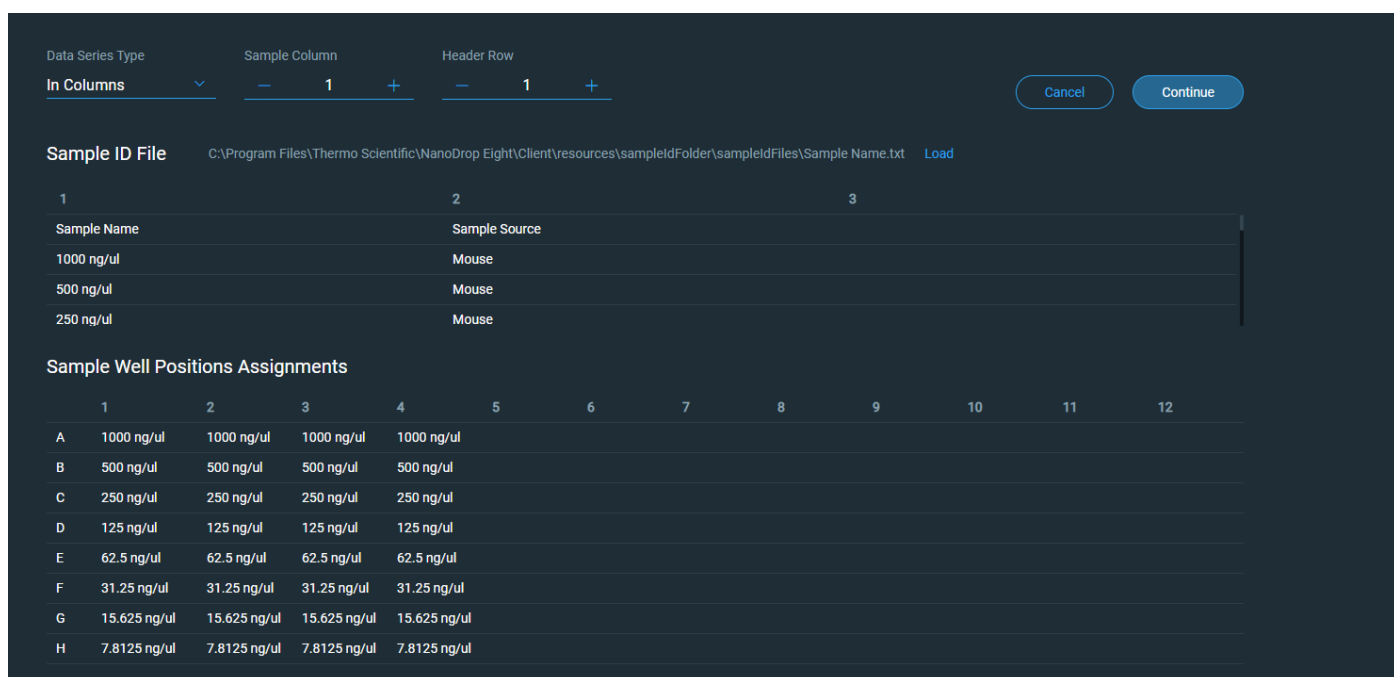
Sample Name	Sample Source
1000 ng/ul	Mouse
500 ng/ul	Mouse
250 ng/ul	Mouse
125 ng/ul	Mouse
62.5 ng/ul	Mouse
31.25 ng/ul	Mouse
15.625 ng/ul	Mouse
7.8125 ng/ul	Mouse

Figure 1. Sample names are entered in one column for uploading a Sample ID file to the NanoDrop Eight software. Additional sample identifiers may be added in separate columns.

Define plate file format

After loading a Sample ID file, the order of the sample names can be specified and should correspond to the well positions on the sample plate. Use the **Data Series Type** dropdown menu to select the proper sequence (rows or columns). Sample names will fill in and correspond to well positions in **Rows**, where the first 12 sample IDs will correspond to the A1 to A12 positions, the next 12 IDs will correspond to the B1 to B12 positions, and so on. Choosing **Columns** arranges the first 8 sample IDs to the A1 to H1 positions, the next 8 IDs will correspond to the A2 to H2 positions, etc.

After selecting the proper series type, the **Sample Column** and **Header Row** can be defined, if applicable. The example in Figure 2 shows the proper format so the measurement data will be archived under the appropriate sample name. This Sample ID file was uploaded with two columns, Sample Name and Sample Source. Since the Sample Name column (column #1) contains the specific IDs, the **Sample Column** is defined as 1. If the Sample ID file was created with a title or header as shown in Figure 2 with the headers Sample Name and Sample Source, then **Header Row** is defined as 1 to ensure the header name is not included in the Sample Well Positions Assignment table. If the Sample ID file does not contain a header, then this value should be defined as 0.



Data Series Type: In Columns | Sample Column: 1 | Header Row: 1

Sample ID File: C:\Program Files\Thermo Scientific\NanoDrop Eight\Client\resources\samplidFolder\samplidFiles\Sample Name.txt Load

	1	2	3
Sample Name	Sample Source		
1000 ng/ul	Mouse		
500 ng/ul	Mouse		
250 ng/ul	Mouse		

Sample Well Positions Assignments

	1	2	3	4	5	6	7	8	9	10	11	12
A	1000 ng/ul	1000 ng/ul	1000 ng/ul	1000 ng/ul								
B	500 ng/ul	500 ng/ul	500 ng/ul	500 ng/ul								
C	250 ng/ul	250 ng/ul	250 ng/ul	250 ng/ul								
D	125 ng/ul	125 ng/ul	125 ng/ul	125 ng/ul								
E	62.5 ng/ul	62.5 ng/ul	62.5 ng/ul	62.5 ng/ul								
F	31.25 ng/ul	31.25 ng/ul	31.25 ng/ul	31.25 ng/ul								
G	15.625 ng/ul	15.625 ng/ul	15.625 ng/ul	15.625 ng/ul								
H	7.8125 ng/ul	7.8125 ng/ul	7.8125 ng/ul	7.8125 ng/ul								

Figure 2. Sample ID setup screen on the NanoDrop Eight software.

Incorrect formatting will result in measured absorbances and concentrations being associated with the wrong sample IDs. The example in Figure 3 shows an improperly formatted plate file that does not account for the header row.

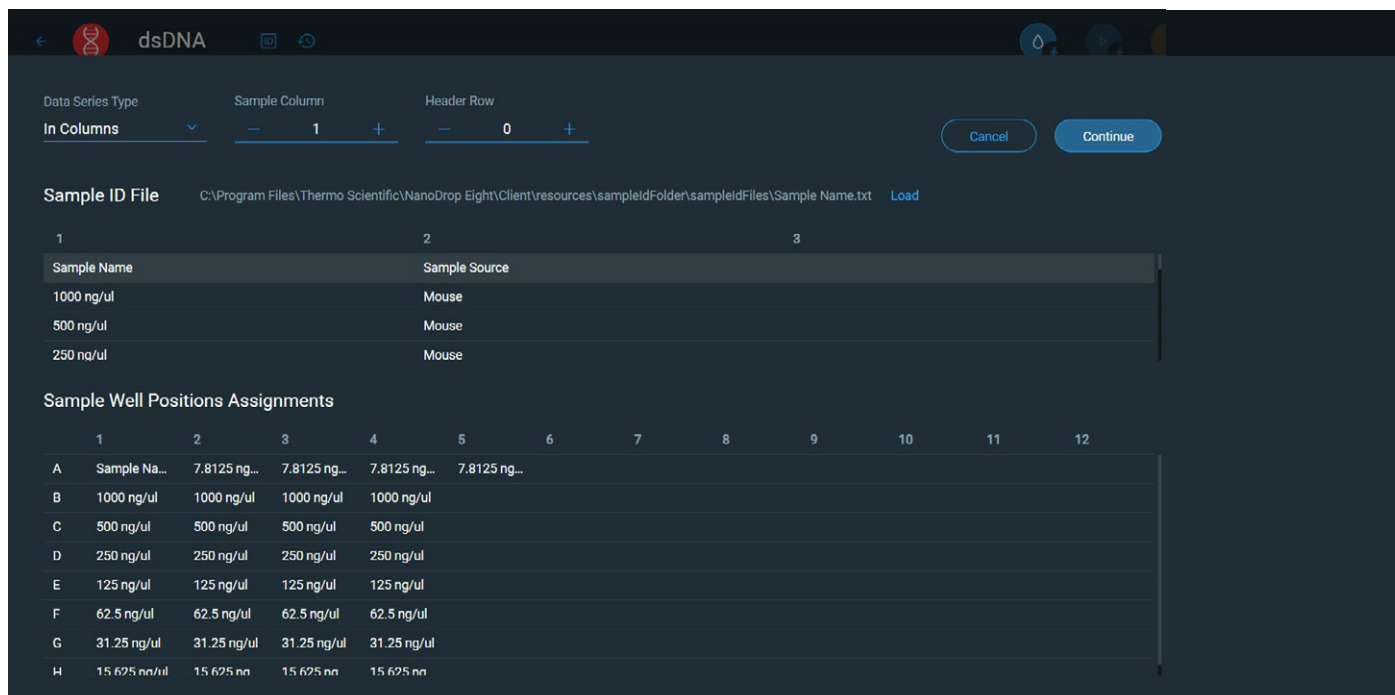


Figure 3. An example of improper formatting. Header Row was defined as 0, leading to the sample ID incorrectly displaying a header title as the label for well A1.

Data acquisition

After loading the formatted Sample ID file, the same names will auto-populate on the data acquisition screen as shown in Figure 4. Wells that contain a sample name will automatically be activated (orange circles). Clicking the three-dot icon above the plate map, circled in red in Figure 4, provides access to the Auto Advance function. This function sets the software to automatically advance the columns a few seconds after a measurement is made, providing a seamless transition from one column of the plate to the next.

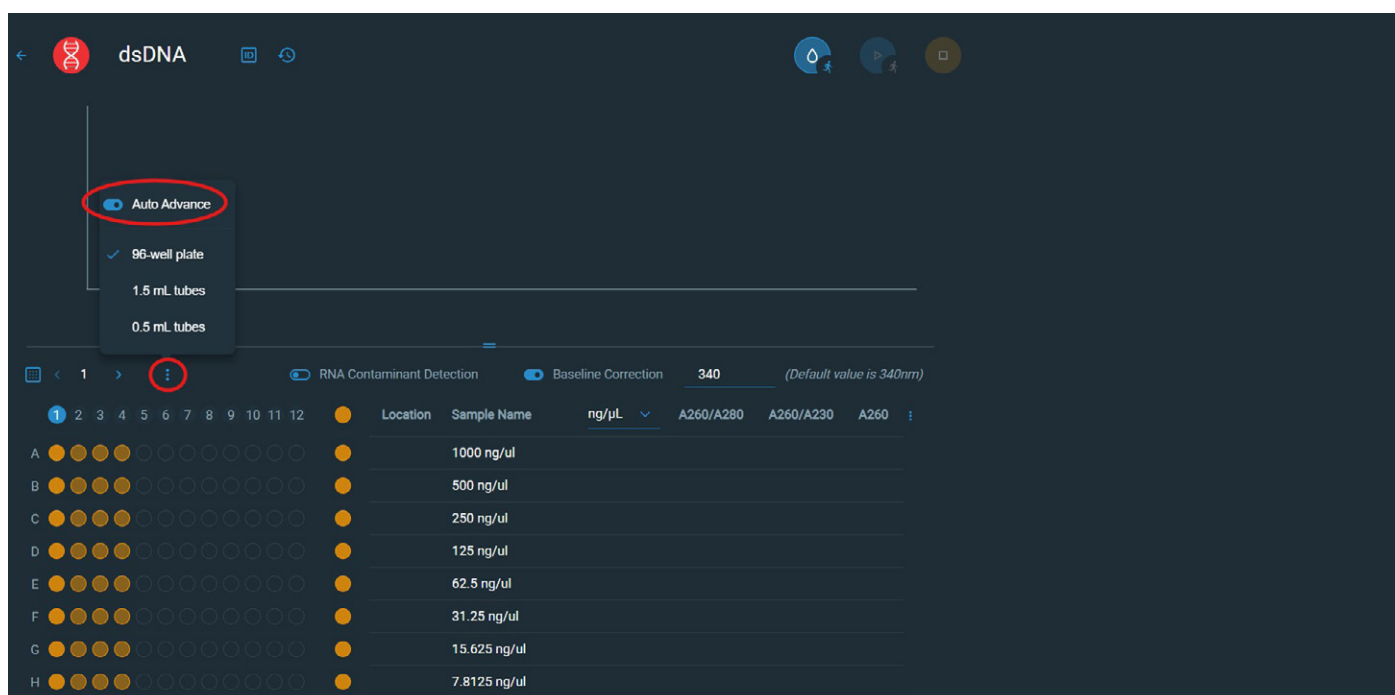


Figure 4. Locating the Auto Advance function in the plate map settings.

After completing the measurement, individual samples can be remeasured by right-clicking on the sample row and selecting **Remeasure** (Figure 5).

Location	Sample Name	ng/ μ L	A260/A280	A260/A230	A260	
A2	1000 ng/ul	482.1	1.31	-5.37	9.64	
B2	500 ng/ul	867	Remeasure Sample		17.35	
C2	250 ng/ul	477	Delete Selected Sample		9.55	

Figure 5. Right-click on the sample row to remeasure the sample.