

# How to use DU-530 UV Spectrophotometer for measuring DNA and RNA concentrations

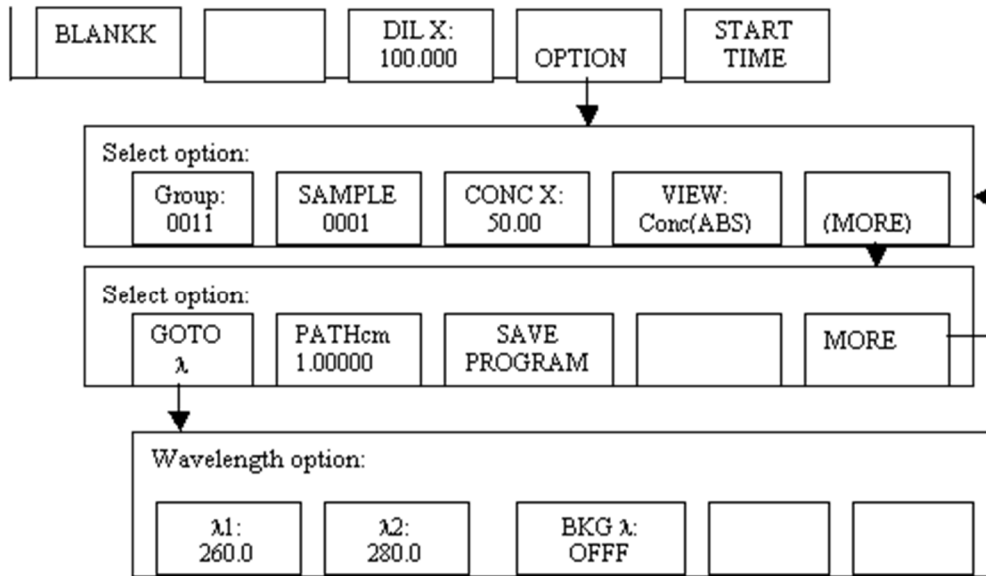
Hongwei Cheng, 11/21/02, commented by TCH 11/21/02

- 1) Enter the Nucleic Acid mode by pressing the [NUCLEIC ACID] soft key from the Main Menu. Eleven methods for the calculation of nucleic acid values are displayed.
- 2) Choose the “ds DNA”, or “ss DNA”, or “RNA” method which is suitable for your samples. (These three methods allow the user to calculate a 260/280 absorbance ratio with the optional use of background correction at 300 nm.)
- 3) Set up parameters as showed on the graph:

NUCLEIC ACID DS DNA	$\lambda$ 260.0 nm	@ UV-VIS
BLANK REQUIRED		
Measurement control		

Net A, 260.0 nm:	
Conc X:	50.000
Conc:	ug/ml

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- 4) Concentration is calculated in units of ug/ml by multiplying the absorbance at  $\lambda_1$  by the factor. The default factor is 50.0 for the ds DNA method, 33.0 for the ss DNA method and 40.0 for the RNA method