

# Barcode Set up and Requirements

## Barcode Symbology's Supported

- Coda bar
- Code 39
- Code 128
- Data Matrix
- EAN-8
- EAN-13
- PDF-417
- QR Code
- UPC-A
- UPC-E

Note: QR Codes are the recommended barcode symbology

## Required Fields for Barcode, Recommended Order & Length

1. Plate type
  - a. 2 characters for plate type
2. Dilution
  - a. 1 character for Dilution
3. Sample ID
  - a. List the maximum number of characters you would have in a sample ID
  - b. The system would be set up to read anything after dilution as sample ID up to the max characters specified.

## Recommended Translation Table for Plate Type

Value in Barcode	Is Equal to Plate Type in Software
AC	AC – Aerobic Count Plate
RA	RAC – Rapid Aerobic Count Plate
CC	CC – Coliform Count Plate
RC	RCC – Rapid Coliform Count Plate
SE	SEC – Select E. Coli Count Plate
EC	EC/CC – E. Coli Coliform Count Plate
RE	REC Rapid E. Coli coliform Count Plate
EB	EB – Enterobacteriaceae Count Plate
RY	RYM – Rapid Yeast and Mold Count Plate
ST	STX – Staph Express Count Plate
SD	STXD – Staph Express Disk
LA	LAB – Lactic Acid Bacteria Count Plate

## Recommended Translation Table for Dilution

Value in Barcode	Is Equal to Dilution in Software
1	1:1
2	1:10
3	1:100
4	1:1,000
5	1:10,000
6	1:100,000
7	1:1,000,000
8	1:10,000,000
9	1:100,000,000

Note: If you are using more dilutions than what is listed (1:50 for example) it is recommended to use two characters for the dilution factor. (e.g., 10 = 1:1, 11 = 1:10, 12 = 1:100) (21 = 1:50, 22 = 1:500).

## Example Barcodes



**RA32 - 14 - 2024 - Sample - ID**

Barcode Symbology = QR Code  
 Plate Type = RAC – Rapid Aerobic Count Plate  
 Dilution = 1:100  
 Sample ID = 2-14-2024-Sample-ID



EC62/14/2024-Sample-ID2

Barcode Symbology = Code 128  
 Plate Type = EC/CC – *E. Coli* Coliform Count Plate  
 Dilution = 1:100,000  
 Sample ID = 2/14/2024-Sample-ID2

