
OPTION 1 (old tubes which are no longer distributed – use will be limited as of December)

Format: CV-xxxxxxxxxy = CV + '-' + 8 digits + 1 check digit

	Digit positions							
GTIN-8	N1	N2	N3	N4	N5	N6	N7	N8
Step 1: Multiply value for each position by								
	x3	x1	x3	x1	x3	x1	x3	x1
Step2: Add results together to create SUM								
Step 3: Subtract the sum from the nearest equal or higher multiple of ten =CHECK DIGIT								

Example:

Positions	N1	N2	N3	N4	N5	N6	N7	N8	N9
Number <i>without</i> Check Digit	0	6	0	0	1	5	0	1	-
Step 1: Multiply	x	x	x	x	x	x	x	X	
By	3	1	3	1	3	1	3	1	
	=	=	=	=	=	=	=	=	
to create <i>sum</i>	0	6	0	0	3	5	0	1	=15
Step 3: Subtract the sum from nearest equal or higher multiple of ten = 20- 15 = 5 (Check Digit)									
Number with check digit	0	6	0	0	1	5	0	1	5

Code with check digit is CV-060015015
which is now 12 characters long.

OPTION 2 (new barcode format for all platform labs – in use)

Format: CVxxxxxxxxyy = CV + 8 digits + 2 check digits

Check digits are based on modulo 97, full format breakdown:

CV

Clavier 2

Where "Clavier 2" is the 8-digit initial value xxxxxxxx

If(Equal(1;len(Mod(Clavier 2;97))); "0"; "")

If the result is less than 10, concatenating a zero before

If(Equal(Mod(Clavier 2;97); 0); 97; Mod(Clavier 2;97))

If the result is zero, switching 00 with 97 to avoid 00 as final check code

For example :

8-digit code : 12345675

Mod 97 : 0

Final code : CV1234567597 (instead of CV1234567500)

8-digit code : 12345678

Mod 97 : 3

Final code : CV1234567803
