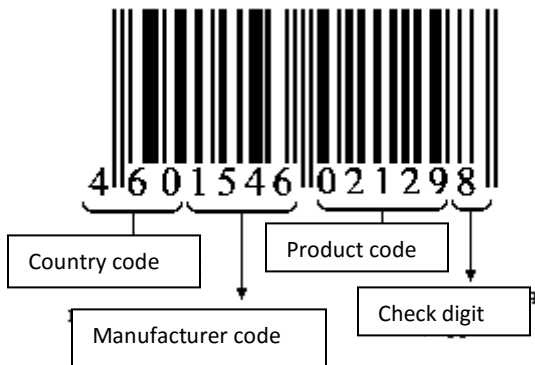# BARCODE VERIFICATION

How to verify the legality of a barcode?

By calculating the check digit you can verify the authenticity of a barcode.

Country code

Product code

Manufacturer code

Check digit

1. Add all numbers in Even Positions: 6+1+4+0+1+9=21,
2. Multiply the result of Step One by three: 21x3=63,
3. Add all numbers in Odd Positions, without check digit: 4+0+5+6+2+2=19,
4. Add the result of Step Two to the result of Step Three to create sum: 63+19=82
5. Subtract multiple of ten from the sum (from the result of Step Four): we get 2,
6. Subtract the result of Step Five from ten: 10-2=8

*If the result of Step Six coincides with the check digit in the barcode, the product is produced legally.
If the result of Step Six does not coincide with the check digit in the barcode, the product is produced illegally.

*Quite often the product may be labeled as "Made in Holland" while the code at the label is not matched with this country. There are a few reasons for this mismatch. Firstly, the company is registered and obtained the code not in its own country but in the country of its major export destination. Secondly, the product has been manufactured by the daughter company. Thirdly, it may be possible that the product has been manufactured in one country under license of the company of the other country. Lastly, founders of the company have been companies from different countries.