



Bovine earmark identification in Luxembourg



Bovine earmarks consist of the country code "LU" and a **total of 9 digits**.

The **first** digit is a "check-digit", which is calculated through a formula using the **other 8 digits**.

The earmark colour is always **salmon**, for prime identification and retagging.

- Current sequencing (as of end 2019):
 - LU + "check-digit" + 18xx xxxx
- Old sequencing (until June 2019):
 - LU + "check-digit" + 9xxx xxxx

Check-digit formula (with above earmark LU 6 9910 6609 as example):

1. Multiply:

a.	2nd digit by 3	$3 \times 9 = 27$
b.	3rd digit by 2	$2 \times 9 = 18$
c.	4th digit by 7	$7 \times 1 = 7$
d.	5th digit by 6	$6 \times 0 = 0$
e.	6th digit by 5	$5 \times 6 = 30$
f.	7th digit by 4	$4 \times 6 = 24$
g.	8th digit by 3	$3 \times 0 = 0$
h.	9th digit by 2	$2 \times 9 = 18$

2. Sum these numbers up $27 + 18 + 7 + 0 + 30 + 24 + 0 + 18 = 124$

3. Calculate the remainder of that number when dividing by 11 $124 / 11 = 11$

(remainder 3)

4. The check digit is the absolute value of the remainder minus 9 $3 - 9 = -6$ (absolute value 6)

5. Check if the 1st digit is equal to the check digit $6 \rightarrow \text{OK!}$

6. **If true, then it's valid, if not, then it's not valid.**



Sample of a bovine passport:

2 / 3



For all further questions concerning bovine identification & registration please contact:

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Website: <https://agriculture.public.lu/de/tiere/nutztiere/identifizierung-registrierung.html>