

# CIRAM

Laboratoire

Biosourcé



## RADIOCARBON ANALYSIS OF BIOBASED PRODUCTS



### QUANTIFY

% natural vs % synthetic  
Adulteration



### QUALIFY

Regulatory or normative  
Compliance of your raw materials  
Authentication of organic materials



### CERTIFY

To get ecolabel  
or certification

## RADIOCARBON AND BIOBASED PRODUCTS

Radiocarbon is a direct, fast and reliable way to quantify the biobased carbon content of your products, no matter their state (liquid, solid, powder...), and the manufacturing process stage.

CIRAM uses norms EN 16640:2017, ISO 16620-2:2019, ASTM D6866-21 and EN 16785:2016.

✓ **Fast**

✓ **Reliable**

✓ **International recognition**

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# SCOPE & FIELDS



## FOOD ADDITIVES

Test the quality of your suppliers: essential oils, aromas...are they 100% natural? Have they been adulterated?



## COSMETICS

Analyze the composition of your active substances and excipients in order to obtain 100% natural biobased formulations.  
Identify the % of natural ingredients of your perfumes and aromas.



## CONSTRUCTION MATERIALS

In order to obtain biobased building labels, natural content can be precisely quantified in isolation materials, wooden panels, paintings...



## BIOFUELS

Measure the percentage of biogenic carbon content to obtain ecolabel. HVO, biodiesel, ULSD, kerozene...



## BIOPOLYMERS

Industrial plastics can be tested according to EN 16785-1 or ISO 16620-2 to quantify their biobased content.



## PIGMENTS, PAPERS, PACKAGING

Quantify the impact of treatments, coatings, binding agents, inks, additives of your biobased products.

**and MORE...**

Agrochemicals, Biotextiles, Medical devices, Natural medicines

**CIRAM, OVER 15 YEARS  
EXPERIENCE IN  
RADIOCARBON ANALYSIS**

More than 1 500 analyses per year for the worldwide market

**CIRAM**  
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