

Certificate

Standard **ISO 14040:2006, ISO 14044:2006**

Certificate Registr. No. **CO 50598789 0001**

Report No. **90148992 001**

Certificate Holder: **ANHUI BBKA BIOCHEMICAL & FUTERRO PLA CO., LTD.**
West Jingsan Road and North Weiliu Road, Economic
Development Zone, Guzhen, Bengbu, Anhui, P.R. China

Verification Site: **ANHUI BBKA BIOCHEMICAL & FUTERRO PLA CO., LTD.**
West Jingsan Road and North Weiliu Road, Economic
Development Zone, Guzhen, Bengbu, Anhui, P.R. China

Verification Method: Verification Body: TÜV Rheinland (China) Ltd.
- Process: Document review, interview, site visit and recalculation

Verification Scope: Based on the information we have received and evaluated that:

- Programme: Voluntary scheme
- Product Category Rules: NA
- Analysis method: EN15804+A2 (1.03) & CML-IA baseline
- LCA software and database: SimaPro 9.5.0.0 / Ecoinvent 3.9.1
- Product: Polylactic Acid (PLA)
 - Life cycle: Cradle to Gate
 - Time period: 2022.07.01 ~ 2023.07.31
 - Declared unit: 1 kg of PLA (including packaging)
 - Global warming potential (GWP): 0.622 kg CO_{2e}, other results referring to annex

Validity: This certificate is valid from 2023-09-18 until 2025-09-17.
This certificate only verified the target product, this verification
does not include review of external communication.

2023-09-18


TÜV Rheinland (China) Ltd.

Room 301, 3F and Room 1203, 12F, Building 4, No.15, Ronghua South Road,
Beijing Economic-Technological Development Area, Beijing (Yizhuang group in
high-end industrial area of Beijing Pilot Free Trade Zone), 100176, P. R. China

This verification and validation is based on the information made available to TÜV Rheinland and the engagement conditions detailed above. Therefore, TÜV Rheinland cannot guarantee the accuracy or correctness of this information. TÜV Rheinland cannot be held liable by any party relying or acting upon this verification and validation.

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Precisely Right.

Annex to certificate

Standard **ISO 14040:2006, ISO 14044:2006**

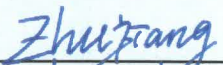
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Result:

Impact Category	Unit	Raw materials	Production	Total
Climate change, total	kg CO ₂ eq	-2.36E-01	8.58E-01	6.22E-01
Climate change, fossil	kg CO ₂ eq	1.66E+00	7.73E-01	2.44E+00
Climate change, biogenic	kg CO ₂ eq	-1.80E+00	8.32E-02	-1.72E+00
Climate change, land use and land use change	kg CO ₂ eq	-1.00E-01	2.12E-03	-9.79E-02
Acidification potential (AP)	kg SO ₂ eq	1.66E-02	5.14E-03	2.18E-02
Eutrophication potential (EP)	kg PO ₄ eq	4.70E-03	5.50E-03	1.02E-02
Formation potential of tropospheric ozone (POCP)	kg ethylene eq	6.75E-04	3.04E-04	9.79E-04
Abiotic depletion potential - Elements	kg antimony eq	7.02E-06	2.00E-06	9.03E-06
Abiotic depletion potential - Fossil fuels	kg extraction	1.15E+01	8.74E+00	2.03E+01
Water scarcity potential	m ³ water eq	1.25E+01	1.31E+01	2.56E+01

2023-09-18


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Page 1 of 1