

# Re-Certification Evaluation Report

*Roundtable on Sustainable Biomaterials*

*RSB Global Advanced Products*

*Advanced Biochemical (Thailand) Co., Ltd.*

**SCS Certificate Code: SCS-RSB-PC-0052**

2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand  
Teerawat Inpota  
www.agcvinythai.com

CERTIFIED	EXPIRATION
28 September 2022	27 September 2027

DATE(S) OF AUDIT
15-17 August, 2022
DATE OF LAST UPDATE
14 September 2022

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*Setting the standard for sustainability™*

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## FOREWORD

SCS Global Services (SCS) is a certification body accredited by the Roundtable on Sustainable Biomaterials (RSB) to conduct evaluations of biofuel operators (CB Registration No. 592). Under the RSB/SCS certification system, participating operators meeting international standards of biofuel production can be certified as “sustainable,” thereby permitting the Operator’s use of the RSB endorsement and logo in the marketplace subject to regular RSB/SCS oversight.

SCS deploys interdisciplinary teams of natural resource specialists and other experts all over the world to conduct evaluations of biofuel operations. SCS evaluation teams collect and analyze written materials, conduct interviews with Participating Operator’s staff and key stakeholders, and complete field and office audits of the operation(s) identified in the certification scope. Upon completion of the fact-finding phase of all evaluations, SCS teams determine compliance to the RSB Principles and Criteria.

Please Note: An RSB certificate itself does not constitute evidence that a particular product supplied by the certificate holder is certified to RSB standards. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required RSB claim is clearly stated on-product. For more information about the RSB, visit their website at [www.rsb.org](http://www.rsb.org).

### Organization of the Report

This report of the results of our evaluation is divided into two sections. Section A provides the public summary and background information that is required by the Roundtable on Sustainable Biomaterials. This section is made available to the general public and is intended to provide an overview of the evaluation process, the management programs, and policies applied to the Participating Operator, and the results of the evaluation. Section A will be posted on the RSB Participating Operators Database (<http://rsb.org/certification/participating-operators/>). Section B contains more detailed results and information for use by the Participating Operator.

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## SECTION A – PUBLIC SUMMARY

### 1.0 GENERAL INFORMATION

#### 1.1 Operator Information

##### 1.1.1 Name and Contact Information

Organization name	Advanced Biochemical (Thailand) Co., Ltd.		
Operator Number	1413		
Contact person	Mr. Teerawat Inpota		
Address	2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand	Telephone	+66 (0) 63 218 1518
		Fax	
		e-mail	<a href="mailto:teerawat.inpo@agc.com">teerawat.inpo@agc.com</a>
		Website	<a href="http://www.agcvinythai.com">www.agcvinythai.com</a> <a href="https://epinitychem.com/company/">https://epinitychem.com/company/</a>

##### 1.1.2 Additional Parties Involved

Organization name	Advanced Biochemical (Thailand) Co., Ltd Business Office (Marketing and Sales)		
Contact person	Mr. Teerawat Inpota		
Address	944 Mitrtown Office Tower, 14 <sup>th</sup> Floor, Rama 4 Road, Wangmai Sub-District, Pathumwan District, Bangkok, Thailand 10330	Telephone	+66 (0) 63 218 1518
		Fax	
		e-mail	<a href="mailto:teerawat.inpo@agc.com">teerawat.inpo@agc.com</a>
		Website	<a href="http://www.agcvinythai.com">www.agcvinythai.com</a> <a href="https://epinitychem.com/company/">https://epinitychem.com/company/</a>
Nature of Involvement			
Marketing and Sales Office			

#### 1.2 Scope of Certificate

Please select one:	<input type="checkbox"/> RSB EU RED	<input checked="" type="checkbox"/> RSB Global
	<input type="checkbox"/> RSB CORSIA	<input type="checkbox"/> RSB Japan Fit
Please select boxes that apply:	<input type="checkbox"/> Pre-assessment	<input type="checkbox"/> 1st Annual Surveillance
	<input type="checkbox"/> Initial Assessment	<input type="checkbox"/> 2nd Annual Surveillance
	<input checked="" type="checkbox"/> Re-certification	<input type="checkbox"/> 3rd Annual Surveillance
	<input type="checkbox"/> Scope Expansion	<input type="checkbox"/> 4th Annual Surveillance

	<input type="checkbox"/> <b>Follow-Up to NCs</b>	
Scope as it appears on certificate:	Manufacture of Bio-based Epichlorohydrin (ECH) from Vegetable Oil derived Glycerine (production residue)	
The scope assessment agrees with the scope under which the operator applied	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If no, please explain:		
Audit scope and extent: Total number of subsidiaries, branch offices, affiliated entities, external third parties contracted or otherwise engaged, operational structures, sites, facilities, processing and production units, supply chain structures, farms/ agricultural/ biomass sites	1 Marketing office 1 Warehouse 1 Point of origin 1 Industrial Operator & First Collector	
<i>Note: If the scope is different, please contact SCS.</i>		

### 1.2.1 Standards Used

#### Applicable RSB-Accredited Standards

Standard Name and Version
<ul style="list-style-type: none"> <li>• RSB Principles &amp; Criteria (RSB-STD-01-001 V3.0);</li> <li>• RSB Procedure for Traceability (Chain of Custody) (RSB-PRO-20-001 V3.2);</li> <li>• RSB Procedure for Participating Operators (RSB-PRO-30-001 V3.3);</li> <li>• RSB Procedure on Communication and Claims (RSB-PRO-50-001 V3.5);</li> <li>• RSB Procedure for Risk Management (RSB-PRO-60-001 V3.3);</li> <li>• RSB Standard for Advanced Fuels (RSB-STD-01-010 V2.4);</li> <li>• RSB Standard for Advanced Products (RSB-STD-02-001 V2.0);</li> <li>• RSB GHG Calculation Methodology (RSB-STD-01-003-01 V2.3)</li> </ul>

All standards employed are available on the websites of the Roundtable on Sustainable Biomaterials (<https://rsb.org/the-rsb-standard/working-with-the-rsb-standard/>). Standards are also available, upon request, from SCS Global Services.

### 1.3 Sites in Scope

#### 1.3.1 Industrial Operator/ Mechanical Processor

<b>Name of Facility</b>	Advanced Biochemical (Thailand) Co., Ltd.	
<b>Type</b>	<input type="checkbox"/> Agriculture Milling and/or Fermentation <input type="checkbox"/> Vegetable oil Extraction <input type="checkbox"/> Biofuel Production and/or Distribution <input checked="" type="checkbox"/> Other, please explain here: Bio-based Epichlorohydrin (ECH) production facility	
<b>Address</b>	2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand	
<b>Geographic location (<i>Latitude &amp; Longitude</i>)</b>	12.03476, 101.149794	
<b>Start date of operations (initial start date)</b>	14 January 2012	
<b>Description of the product or the product component that the certification covers, including, if applicable, the specification of the mass of the certified component related to the total product.</b>	Epichlorohydrin (ECH) is an intermediate chemical used mainly in the production of epoxy resins and other chemical products. Refined glycerine reacts with hydrogen chloride to form dichloropropanol. Dichloropropanol and sodium hydroxide are processed to make Epichlorohydrin.	
<b>Annual throughput of previous 12 months (1 July 2021-30 June 2022)</b> See confidential annex: business confidential information		

#### 1.3.2 Warehouses – See Confidential Annex

#### 1.3.3 Points of Origin (Details in Confidential Annex)

<b>Number of Points of Origin in Scope (List in Confidential Annex)</b>	1
<b>Number of Points of Origin providing more than ten metric tons per months</b>	1
<b>Number of Points of Origin Assessed on a Sample Basis during This Audit</b>	1

### 1.4 Advanced Product Information

*(Can be moved to appendix if certain information is confidential)*

<b>If the feedstock for a batch of RSB certified Advanced Product is not wholly but only partly RSB-certified: state the amount of certified feedstock in relation to the total mass of the feedstock for the appropriate category:</b>	Wholly RSB eligible feedstock
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<b>For Category I products:</b>	
<b>State the bio-based carbon or bio-based mass content that can be ensured at any time of the production process</b>	100%
<b>State the standard used for measuring or calculating the biobased carbon or bio-based mass content</b>	ASTM D6866-22 Method B (AMS) Total Organic Carbon

## 2.0 EVALUATION PLANNING & PROCESS

### 2.1 Audit Team

<b>Auditor Name:</b>	Robert Earley	<b>Auditor role:</b>	Lead Auditor
<b>Qualifications:</b> Robert Earley was qualified as lead auditor of RSB and ISCC certifications in 2017, has received lead auditor training for ISO 9001:2015, and is currently the technical manager of the RSB certification program at SCS Global Services. Prior to joining SCS Global Services, Robert was the Transport Program Manager of Manila-based Clean Air Asia, promoting clean and efficient freight and logistics across Asia, and before that was the Director of the Clean Transportation Program at the Innovation Center for Energy and Transportation (iCET), which developed standards for lifecycle GHG emissions assessment for biofuels in China, and which became the first member of the RSB in China. Mr. Earley, who has lived in China since 2005 and is fluent in Mandarin Chinese, studied environmental science at the University of Calgary and Urban and Regional Planning at the University of Waterloo in Canada. His coursework at the University of Calgary included impacts of agriculture and conservation in agricultural areas in southern Alberta.			
<b>Auditor Name:</b>	Marcos Gallastegui	<b>Auditor role:</b>	Team Auditor (Trainee)
<b>Qualifications:</b> Marcos Gallastegui is an auditor in training for the RSB program. He is a certified ISCC, Renewable Wool Standard, 2BSvs, RTRS, RSPO and Bonsucro amongst other standards. A resident of Argentina, Marcos is fluent in Spanish, English and Portuguese. He has a degree in Agricultural Engineering at Buenos Aires University.			
<b>Auditor Name:</b>	Dr. Otavio Cavalett	<b>Auditor role:</b>	GHG Verifier
<b>Qualifications:</b> Otavio Cavalett is a Researcher in the Industrial Ecology Programme (IndEcol), Department of Energy and Process Engineering, NTNU (Norway) and an Auditor in SCS Global Services (USA). Prior to this, he was Leader of the Sustainability Analysis Team at the Brazilian National Biorenovables Laboratory (LNBR/CNPEM) in Brazil. He has more than 15 years of experience with Life Cycle Assessment of biofuel and biorefinery systems, with emphasis on climate metrics and other environmental areas of interest in relation to the United Nations Sustainable Development Goals. He has contributed to recent IPCC reports and published more than 60 scientific papers.			
<b>Auditor Name:</b>	Dr. Nuwong Chollacoop	<b>Auditor role:</b>	Translator and technical expert
<b>Qualifications:</b> Dr. Chollacoop is the Director of the Low Carbon Energy Research Group at the National Energy Technology Center of Thailand. With a Bachelor of Science in Engineering from Brown University and PhD in materials engineering from the Massachusetts Institute of Technology, he is a leading expert in bioenergy technology in Thailand and has participated in many bilateral and multilateral research projects in Thailand and across Asia since 2005.			



## 2.2 Evaluation Schedule and Extent of Audit

### 2.2.1 Methodology and Strategies Employed

SCS deploys interdisciplinary teams with expertise in agriculture, ecology, forestry, social sciences, natural resource economics, and other relevant fields to assess an Operator’s compliance to RSB standards and policies. Evaluation methods include document and record review, implementing sampling strategies to visit a broad number of site and facility types, observation of implementation of management plans and policies, and stakeholder analysis. When there is more than one team member, team members may review parts of the standards based on their background and expertise. On the final day of an evaluation, team members convene to deliberate the findings of the assessment jointly. This involves an analysis of all relevant site observations, stakeholder comments, and reviewed documents and records. Where consensus between team members cannot be achieved due to lack of evidence, conflicting evidence or differences of interpretation of the standards, the team is instructed to report these in the certification decision section.

### 2.2.2 Evaluation Itinerary and Activities

Time	Element/Activity	Personnel Involved
<b>Auditor(s) names:</b> Robert Earley (remote), Dr. Nuwong Chollacoop (translator on-site)		
<b>Day 1</b> 15 August, 2022	Advanced Biochemical (Thailand) Co., Ltd. (ABT)2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand <b>And Online via MS Teams</b>	
8:00 a.m.	<b>Opening Meeting and General Requirements</b> <ul style="list-style-type: none"> <li>– Introduction to certification program and assessment process to on-site staff; confidentiality; safety procedures; method of reporting and NC grading, etc.</li> <li>– Review of scheduled activities</li> <li>– Identify workers to be interviewed according to staff scheduling during the audit</li> <li>– Review of RSB procedures; confirm roles, responsibilities and processes</li> <li>– Confirmation of scope of products to be certified</li> <li>– Client to outline production process and overall process flow</li> <li>– Review of site map(s)</li> <li>– Review of Risk Assessment Tool</li> <li>– Review of Screening Tool</li> <li>– Relevant updates from client and any social or environmental changes to the operation</li> <li>– Follow-up on implementation of any corrective action plans from desk audit or previous initial field audit.</li> </ul>	Management
9:00 a.m.	<b>Document Review: Participating Operator/Standards Checklist</b> <ul style="list-style-type: none"> <li>– Review of training procedures and records</li> <li>– Review of grievance mechanism and records</li> </ul>	Management

	<ul style="list-style-type: none"> <li>- Review of traceability method and implementation (including acquiring, handling and forwarding of sustainable material); meter calibration records</li> <li>- Analysis of material balances and records</li> <li>- Review of records</li> <li>- Review of GHG inputs</li> <li>- Communications and claims</li> <li>- Requirements for Advanced Fuels/Advanced Products</li> </ul>	
12:00 p.m.	<b>Lunch Break</b> <ul style="list-style-type: none"> <li>- Please prepare a simple meal on-site or nearby to maintain audit schedule</li> </ul>	
1:00 p.m.	<b>Stakeholder Interviews (off-site)</b> <ul style="list-style-type: none"> <li>- Auditor to listen to independent assessment of prior and informed consent</li> <li>- Independent cross-check of potential social (e.g. status and impacts, land tenure, food security) and environmental issues (e.g. understanding of no-go areas, high biodiversity or special conservation areas addressed or not)</li> </ul>	
	<b>If there is additional time, return to ABT to continue document review</b>	
5:00 p.m.	<b>Report writing</b> <ul style="list-style-type: none"> <li>- Auditor(s) take time to consolidate notes and confirm audit findings and prepare the closing meeting record</li> </ul>	
5:30 p.m.	<b>Review of day's findings</b>	
	<b>End of day 1</b>	

Time	Industrial facility	Personnel Involved
<b>Auditor(s) names:</b> Robert Earley (remote), Dr. Nuwong Chollacoop (translator on-site)		
<b>Day 2</b> 16 August, 2022	Advanced Biochemical (Thailand) Co., Ltd. (ABT) 2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand <b>And Online via MS Teams</b>	
8:00 a.m.	<b>Site walk-through: Dr. Nuwong Chollacoop, technical expert, walk through on-the-ground with Teams remote meeting</b> <ul style="list-style-type: none"> <li>- Observe operations at processing facility</li> <li>- Observe control room</li> <li>- Observe brine treatment unit</li> <li>- Observe feedstock and product storage area</li> <li>- Observe chemical storage and disposal</li> <li>- Observe other critical control points - weighbridge</li> </ul>	Management Warehouse staff
9:30 a.m.	<b>Refreshment break</b>	
10:00 a.m.	<b>Labour worker interviews</b> <ul style="list-style-type: none"> <li>- Interview labour workers in a room separate from management. Translator will be in room and auditor will be present via remote video audit</li> </ul> 3 staff shall be interviewed, 10 minutes per person <ul style="list-style-type: none"> <li>- Interview welfare committee representative</li> </ul>	
11:00 a.m.	<b>Document Review: Warehouse</b>	Management

	<ul style="list-style-type: none"> <li>- Review of training procedures and records; list of staff handling RSB material</li> <li>- Review of contracts and records for material handling</li> <li>- Review of traceability methods/procedures and implementation (including acquiring, handling and forwarding sustainable material)</li> <li>- Analysis of material balances and transaction records; meter calibration records</li> <li>- Requirements for Advanced Fuels/Advanced Products</li> </ul>	Warehouse staff
12:00 p.m.	<p><b>Lunch Break</b> Please prepare a simple meal on-site or nearby to maintain audit schedule</p>	

Time	Element/Activity	Personnel Involved
<b>Auditor(s) names:</b> Robert Earley (remote), Dr. Nuwong Chollacoop (translator on-site)		
<b>Day 2</b> 16 August, 2022	Advanced Biochemical (Thailand) Co., Ltd. (ABT) 2/1, I-3 Road, Map Ta Phut Sub-District, Muang Rayong District, Rayong Province, 21150 Thailand <b>And Online via MS Teams</b>	
1:00 p.m.	<p><b>Document Review: Compliance with Principles and Criteria</b> Ensure that risks identified in the Risk assessment tool and screening tool are directly addressed</p> <p>Principle 1:</p> <ul style="list-style-type: none"> <li>- Review of all relevant business licenses</li> <li>- Review of land and water use permits</li> <li>- Review of operator’s index of relevant laws and regulations and their compliance</li> </ul> <p>Principle 2:</p> <ul style="list-style-type: none"> <li>- Review Environmental and Social Management Plan (ESMP)</li> <li>- Review impact assessments (if applicable or identified in screening tool)</li> <li>- Review operator’s stakeholder engagement records. Review grievance mechanism for external parties and stakeholders</li> </ul> <p>Principle 4:</p> <ul style="list-style-type: none"> <li>- Work conditions, piece work and living wage, equality issues, etc.</li> <li>- Review of employee and third-party worker contracts, policies, training records and employee grievances</li> <li>- Training and occupational health and safety records</li> <li>- Records for freedom of association (union) mechanism</li> </ul> <p>Principle 5:</p> <ul style="list-style-type: none"> <li>- Social and economic development plans and monitoring</li> </ul> <p>Principle 6:</p> <ul style="list-style-type: none"> <li>- Food security mitigation plans and monitoring</li> </ul> <p>Principle 7:</p> <ul style="list-style-type: none"> <li>- Conservation values, ecosystems, buffers, water rights</li> </ul> <p>Principle 9:</p> <ul style="list-style-type: none"> <li>- Water permits, water management plans and monitoring in ESMP</li> </ul> <p>Principle 10:</p> <ul style="list-style-type: none"> <li>- Air permits, air management plans and monitoring in ESMP</li> </ul>	Management and relevant operator staff

	<p>Principle 11:</p> <ul style="list-style-type: none"> <li>- Use of technology: GMO, fertilizers, crop protection chemicals</li> <li>- Integrated waste management</li> <li>- Resource and energy use, energy efficiency</li> </ul> <p>Principle 12:</p> <ul style="list-style-type: none"> <li>- Review documentation of historic land use/land tenure, legal tenure. Land lease agreements</li> </ul>	
4:45 p.m.	<p><b>Report writing</b></p> <p>Auditor(s) take time to consolidate notes and confirm audit findings and prepare the closing meeting record</p>	
5:00 p.m.	<p><b>Review of day's findings</b></p>	
<b>End of day 2</b>		

Time	Point of Origin of Wastes and Residues	Personnel Involved
<b>Auditor(s) names:</b> Marcos Gallestegui with Robert Earley as supervising lead auditor		
16 August, 2022	<b>Remote audit conducted of Point of Origin</b>	
8:00 a.m.	<p><b>Opening meeting and general requirements</b></p> <ul style="list-style-type: none"> <li>- Review of assessment process to on-site staff, list of applicable standards, confidentiality, safety procedures if relevant</li> <li>- Confirm roles, responsibilities and processes</li> <li>- Confirmation of scope of products to be certified</li> <li>- Review of site map(s)</li> </ul>	Point of Origin Management
8:30	<p><b>Document Review: Participating Operator / Standards Checklist (Point of Origin Checklist)</b></p> <ul style="list-style-type: none"> <li>- Review eligibility of material</li> <li>- Review process flows and feasibility of production volumes (including mass balance)</li> <li>- Review of declarations of outgoing material</li> <li>- Review of feedstock-specific requirements, if applicable</li> </ul>	Point of Origin Management
11:00 a.m.	<p><b>Site walk-through (can be done remotely via video conference if necessary)</b></p> <ul style="list-style-type: none"> <li>- Observe storage area</li> <li>- Meters and other measurement equipment, data gathering and processing tool adequacy</li> </ul> <p>For remote audits, photographs or videos may be used. Please provide high-resolution photographs of key measurement devices</p>	Point of Origin staff
11:30 a.m.	<p><b>Report Writing</b></p> <ul style="list-style-type: none"> <li>- Auditor(s) take time to consolidate notes and confirm audit findings</li> </ul>	
12:00 p.m.	<p><b>Findings</b></p> <ul style="list-style-type: none"> <li>- Presentation of all non-compliances and opportunities for improvement</li> </ul>	
<b>End of Point of Origin Audit</b>		

Time	Closing meeting	Personnel Involved
<b>Auditor(s) names:</b> Robert Earley		
<b>Day 3</b> 17 August, 2022	<b>Remote via MS Teams</b>	
9:00 a.m.	<b>Document Review</b> <ul style="list-style-type: none"> <li>- Any remaining issues not covered in previous two days (Principles and Criteria or other documentation)</li> </ul>	Management Representative
11:00 a.m.	<b>Closing meeting</b> <ul style="list-style-type: none"> <li>- Presentation of general audit findings</li> <li>- Presentation of all non-compliances and opportunities for improvement</li> <li>- Review of closing meeting record</li> <li>- Establish timetables for signed closing meeting record, corrective action and submission of Correction Action Plan</li> <li>- Overview of timetable for audit report completion</li> <li>- Reiterate SCS appeal and grievance policy</li> <li>- Questions</li> </ul>	All management, senior management
<b>End of Audit</b>		

### 2.2.3 Evaluation of RSB compliance claims and use of RSB trademarks

<b>Does Operator use RSB trademarks on off-product or on-product claims?</b>	Yes, operator uses an off-product claim on its website
<b>Are all claims used in line with scope and allowed claims per RSB-PRO-50-001 or Advanced Product Standard, as applicable? Indicate specific claims used.</b>	<p>Yes, claim was approved by RSB: <a href="https://epinitychem.com/certification/">https://epinitychem.com/certification/</a></p> <p>EPINITY™ is certified by the Roundtable on Sustainable Biomaterials (RSB), a global multi-stakeholder independent organization that drives the development of a bio-based and circular economy on a global scale through sustainability solutions, certification and collaborative partnerships.</p> <p>EPINITY™ has received the RSB Certification for Advanced Products, which provides three powerful ‘Positive Impact’ claims.</p> <ol style="list-style-type: none"> <li>1. Sustainable Production: Complies with RSB’s 12 Principles and Criteria</li> <li>2. Climate Change Mitigation: at least 10% lower GHG emissions than a comparable fossil product</li> </ol>

	3. Fossil Depletion Reduction: Products demonstrate a minimum of 25% fossil replacement.
<b>If claims deviate from approved language in standard, signed document specifying claims approved by RSB:</b>	Yes, claim is based on e-mail from Cris Robertson Marketing Manager (RSB)

**2.3 Stakeholder Consultation Process (for Main audits)**

In accordance with SCS and RSB protocols, consultation with key stakeholders is an integral component of the evaluation process. Stakeholder consultation takes place prior to, concurrent with, and following field evaluations. The primary purpose of such consultation is to solicit input from affected parties as to the strengths and weaknesses of the Participating Operator’s management system and operations, relative to the standard, and the nature of the interaction between the company and the surrounding communities.

Principal stakeholder groups are identified based upon the certification scope of the participating operator. Stakeholder consultation activities are organized according to the requirements of the RSB. The table below summarizes the major comments received from stakeholders and the assessment team’s response. Where a stakeholder comment has triggered a subsequent investigation during the evaluation, the corresponding follow-up action and conclusions from SCS are noted below.

**2.3.1 Summary of Stakeholder Comments and Responses (for Main audits)**

Stakeholder Comments	SCS Response
<b>Economic Concerns</b>	
No economic concerns	Stakeholders interviewed viewed the operation as a very positive economic contributor to the local area and national economy
<b>Social Concerns</b>	
No social concerns	It appears that the operation has had a positive impact on community development and operations. Efforts have been made to schedule truck traffic during non-rush hour times to reduce traffic jams
<b>Environmental Concerns</b>	
Water shortage can be a concern in dry years	ABT has implemented a high level of water consumption control strategies including reverse osmosis water consumption, brine treatment and re-use in other processes and by securing alternative sources of water in the case that local resources become strained. The operator has joined the “Water War Room”

	which is a public-private committee for studying local water issues and when relevant, can force companies to reduce their water consumption according to a quota system.
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### 3.0 RISK ASSESSMENT RESULTS

#### 3.1.1 Risk Class

Note: For multi-site operations, the highest risk class will apply for the Participating Operator.

Site	Based on the most recent self-risk assessment the PO's risk assessment results are (The number):	Corresponding risk class (low, medium, high):	Date of risk assessment (must be no older than 3 months from the audit date)	Auditor's assessment of Operator's risk
Advanced Biochemical (Thailand) Co. Ltd.	0 (adjusted)	Low	21 July 2022	Disagrees with the assessment. There is a supplier in scope which was not noted in the risk assessment. Adjusted rating should be 3 (low)
Overall Risk				3 (Low)

If risk assessment deviates:

Site	Risk Assessment #	Risk Assessment Topic	PO's assessment	Auditor's assessment and explanation
Advanced Biochemical (Thailand) Co. Ltd.	C1	Does your scope include suppliers?	No	The scope of certification does include one point of origin.

#### 3.1.2 Risk Impact on Certificate Validity

	Low risk class	Medium risk class	High risk class
Certificate validity	5 years	3 years	2 years
Main audit	Every 5 years	Every 3 years	Every 2 years
Surveillance audit	Annual	Annual	Annual

## 4.0 RESULTS OF THE EVALUATION

### 4.1 Process of Determining Compliance

#### 4.1.1 Structure of Standard and Degrees of Non-Compliance

Consistent with SCS Sustainable Biofuels Program evaluation protocols, the audit team collectively determines whether or not the Participating Operator and entities in scope are compliant with every applicable indicator. Each non-compliance is evaluated to determine whether it constitutes a major or minor non-compliance. Not all indicators are equally important, and there is no simple numerical formula to determine whether an operation is in non-compliance. The team therefore must use their collective judgment to assess each criterion and determine if the Operator is in compliance.

#### 4.1.2 Interpretations of Findings

*Major Non-compliances (NCs)*, either alone or in combination with non-compliances of other applicable indicators, result (or are likely to result) in a fundamental failure to achieve the objectives of the relevant RSB Criterion. These non-compliances must be resolved or closed out before a certificate can be awarded. If Major NCs arise after an operation is certified, the timeframe for correcting these non-compliances is typically no more than three months. Certification is contingent on the operator’s response to the NCs within the stipulated time frame.

*Minor Non-compliances* are typically limited in scale or can be characterized as an unusual lapse in the system. Most minor NCs are the result of a non-conformance at the indicator-level. Non-compliances must be closed out within a specified time period of award of the certificate.

*Opportunity for Improvement* is finding that could potentially affect the PO’s ability to comply with RSB requirements in the future.

*Observation* is an occurrence that can impact conformity with the RSB standard but is not an opportunity for improvement and does not directly impact conformity to the standards.

#### 4.1.3 Major Non-compliances

<input type="checkbox"/>	No major NCs were issued to the Operator during the evaluation. Any minor CARs from previous surveillance audits have been reviewed and closed prior to the issuance of a certificate.
<input checked="" type="checkbox"/>	Major NCs were issued to the Operator during the evaluation, which have all been closed to the satisfaction of the audit team and meet the requirements of the standards. Any minor CARs from previous surveillance audits have been reviewed and closed prior to the issuance of a certificate.
<input type="checkbox"/>	Major NCs were issued to the Operator during the evaluation and the Operator has not yet satisfactorily closed all major NCs.



**4.1.4 Non-compliances and Current Status**

Summary of Non-compliances and Current Status				
Non-compliance Number	Type of Non-compliance	Relevant RSB Standard & Indicator No.	Summary of Finding and Evidence Collected	Status of Non-compliance (Open/Closed)
2022-1	Minor	RSB-PRO-30-001 Para F. 1.6 and F 2.7, RSB Global checklist line 1.9; RSB-PRO-60-001 Para F.2, F.3, RSB Global checklist line 3.6	<p>The operator did not include a point of origin in the risk assessment tool. Question C1 was answered as "no suppliers in scope" while in reality a supplier is in scope.</p> <p>RCA received</p>	Open
2022-2	Major	RSB-PRO-20-001 Annex 1 , RSB Global Checklist line 6.3.3	<p>The outgoing Proof of Sustainability document does not include a statement regarding the raw feedstock being an eligible waste or residue.</p> <p>RCA received</p> <p>Proof of sustainability document updated with correct statement regarding raw feedstock</p>	Closed 8/24/22
2022-3	Major	RSB-STD-02-001 Para F 2.1.4 RSB Global Checklist line 9.1, 9.3.3, 9.3.7	<p>The critical review of the LCA report conducted by a practitioner resulted in a comment that transparency of data sources for calculating emissions was not adequate. Input data from the operator were confirmed and transparent during this audit, but emission factors were not available at time of audit. Therefore, the audit team requires further information from the operator to assess compliance.</p> <p>RCA received</p> <p>Closed: A meeting with the LCA practitioner was conducted on 8/24/22 where a sample of emission factors in the RSB's recognized database was observed by the audit team. The emission factors were found to be reasonable and correctly used.</p>	Closed 8/24/22

## 5.0 CERTIFICATION DECISION

Certification Recommendation		
<b>For Initial and Re-certifications: Operator to be awarded RSB certification subject to the minor non-compliances stated in Section 4.2.5.</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
The SCS evaluation team makes the above recommendation for certification based on the full and proper execution of the SCS Responsible Biofuels Program evaluation protocols. If certification is recommended, the Operator has satisfactorily demonstrated the following without exception:		
Operator has addressed any Major NC(s) assigned during the evaluation.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>No Major NCs issued</b> <input type="checkbox"/>	
Operator has demonstrated that their system of management is capable of ensuring that all of the requirements of the applicable standards are met over the sites and facilities covered by the scope of the evaluation.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Comments and/or details of any issue which was difficult and/or impossible to evaluate:		
<b>To be completed by Certification Decision-Making Entity</b>	<b>Technical Review by:</b> If different to decision-maker	Inna Kitaychik
	<b>Certification decision:</b>	SCS grants recertification against the Standards listed in section 1.2.1 of this report.
	<b>Certification decision by:</b>	Inna Kitaychik
	<b>Date of decision:</b> For initial or continued certification (scope expansion decisions list separately)	8 September 2022
	<b>Surveillance schedule:</b>	1 <sup>st</sup> surveillance audit by 17 August 2023
Notes:		