CERTIFICATION

AOAC Research Institute
Performance Tested Methods℠

Certificate No.

112202

The AOAC Research Institute hereby certifies the method known as

atect Stackable Medium for aerobic count (aS-Medium AC)

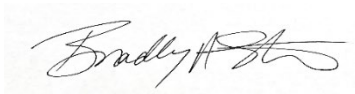
manufactured by

Atect Corporation

3275-1, Kami-haneda-cho

Higashi-omi city, Shiga Pref., 527-0082, Japan

This method has been evaluated and certified according to the policies and procedures of the AOAC *Performance Tested Methods*℠ Program. This certificate indicates an AOAC Research Institute Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC Research Institute *Performance Tested Methods*℠ certification mark on the above-mentioned method for the period below. Renewal may be granted by the Expiration Date under the rules stated in the licensing agreement.



Bradley A. Stawick, AOAC Research Institute Senior Director

Issue Date	January 06, 2026
Expiration Date	December 31, 2026

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METHOD NAME	CATALOG NUMBER	ORIGINAL CERTIFICATION DATE
atect Stackable Medium for aerobic count (aS-Medium AC)	380101-AC100	November 28, 2022

PRINCIPLE OF THE METHOD

aS-Medium AC consists of a plastic substrate and a cover film with a resin flame. As an alternative to the conventional method using an agar medium, it is an easy-to-use microbiological test medium that measures the aerobic count from a sample solution. Plates can be stacked stably due to the indentations at the four corners. By adding an adhesive resin frame to the cover film, it improves adhesion to the substrate, prevents the cover film from unintentionally turning over, and suppresses leakage of the test liquid. In addition, since this product is in the form of a thin sheet, it contributes to space saving during storage and reduction of environmental load during disposal.
The aS-Medium AC contains tetrazolium chloride salt. The tetrazolium chloride salt is reduced by the dehydrogenase of the bacteria grown at 35°C for 48 h, and red colonies appear on the medium. By counting red colonies, the number of general viable bacteria contained in the sample can be detected.
aS-Medium AC is intended to be used by trained laboratory specialists or by general users in the presence of those specialists in a microbiology laboratory setting.

CERTIFIED CLAIM STATEMENT: The Atect Stackable Medium for aerobic count (aS-Medium AC) method is certified for the enumeration of mesophilic aerobic bacteria within the scope of Table 1.

Table 1. Method Performance Claims

Matrix	Test portion	Diluent	Incubation of plates	Reference method	Claim
Ready-to-eat ham	50 g	BPBD[a]	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq[b]
Ready-to-eat bacon	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw pork	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw beef trim	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw ground beef	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw ground beef[c]	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw beef trim	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq
Fresh raw pork	50 g	BPBD	35 ± 1°C for 48 ± 2 h	MLG 3.02 (2)	Eq

[a]Butterfield's phosphate-buffered diluent water

[b]Eq = Equivalence of candidate and reference methods demonstrated by 90% confidence interval on difference of means contained entirely within -0.5 to 0.5 $\log_{10}$ using SLV study design from OMA Appendix J.

[c]Matrix tested by the independent laboratory.

[d]The modification evaluated a new plate structure and applies to all matrixes in the claim.

Table 2. Method Summary

No.	Date	Summary	Supporting Data
1	November 28, 2022	Original certification.	Certification Report
2	April 2024	Level 2 Structure of the plate and new production process changes. Method name change from FM-Plate AC to aS-Medium AC and catalog number update.	Modification 1 Report