1	1.0 Revision History			
2 3	<ul> <li>1.1 Revision 1 – 1994: "Appendix 18 Definitions &amp; Modification Guideline"</li> <li>1.2 Revision 2 – 2023: "AOAC Research Institute Modification Guideline Policy"</li> </ul>			
4	2.0 Revision Requirements			
5 6	2.1 The Modification Guidance Policy and Modification Guidance Table will be reviewed at a minimum every five years.			
7 8 9 10 11 12 13 14 15	3.0 Purpose This policy document provides guidance on the process and requirements for modifications to <i>Performance Tested Methods</i> <sup>SM</sup> (PTM) certified methods, <i>Reviewed and Recognized</i> <sup>SM</sup> (R <sup>2</sup> ) certified methods. The guideline aims to ensure that modifications to test methods do not violate the conditions of the certification. The guidance provides a standardized approach for a wide range of scenarios; however, it is not all-inclusive. For any modification not covered by the Modification Guidance Table, contact AOAC RI for appropriate actions. The Modification Guidance Table can be found on the AOAC RI website under Research Institute Resources and Forms.			
16	4.0 Definitions			
<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> <li>33</li> <li>34</li> <li>35</li> </ol>	<ul> <li>4.1 Modification – Changes to certified methods that generally fall into categories described on the Modification Guidance Table.</li> <li>4.2 Extension – Addition of a new claim to a certified method including new matrix(es), new reference method(s) and/or new method protocol. Extensions can be initiated by the Method Sponsor or as part of an AOAC RI managed Targeted Matrix Extension or Emergency Response Validation.</li> <li>4.3 Method – A particular process for determining the presence/absence or amount of a target analyte(s). Components of a method includes applicability, reagents and equipment, sample preparation, analysis procedure, interpretation of results, and warnings, limitations, and precautions.</li> <li>4.4 Manufacturer – The company responsible for manufacturing a test kit or instrumentation.</li> <li>4.5 Submitting company – The original company responsible for submitting the appropriate AOAC RI program application. They are the default Method Sponsor, in the absence of any new/additional Sponsor. For example, in cases of company acquisitions.</li> <li>4.6 Method Sponsor – Company responsible for ensuring compliance to AOAC RI policies and procedures. This is the current Certification Mark licensee.</li> <li>4.7 Distributor – Company that rebrands method instructions for use, packaging, and/or labeling of AOAC RI certified PTMs. Responsible for participating in and compliance of the AOAC RI Certification Mark License Agreement policies including yearly renewal</li> </ul>			
36 37 38 39 40 41	<ul> <li>procedures.</li> <li>4.8 Matrix – A single and specific food/environmental/cannabis item validated and claimed in the scope of a method. Examples include raw ground beef (80% lean), dried cannabis flower (≥ 0.3% delta-9 THC), and stainless-steel surface (sponge, 4" x 4").</li> <li>4.9 Matrix Group – AOAC RI recognizes three matrix groups of foods (including cannabis food products), environmental samples, and cannabis (non-food products).</li> </ul>			

42	4.10 Performance Claims – Summary of certified method claims, which can be found on the
43	AOAC RI program certificate.
44	4.11 AOAC RI Volunteer Expert – Subject matter expert (with respect to analyte, scientific
45	methodology, matrixes). One is assigned per level 3 modification and may be assigned to
46	level 2 modifications. Has in-depth knowledge of AOAC RI process and ensures continuity
47	for technical requirements from study to study. Typically, the Volunteer Expert reviews the
48	validation protocol and report.
49	4.12 AOAC RI Expert Reviewer – Subject matter expert (with respect to analyte, scientific
50	methodology, matrixes). Two are assigned per level 3 modification. Typically, the Expert
51	Reviewer reviews the validation report. Method Sponsors or Technical Consultants may
52	request the validation protocol is reviewed by the Expert Reviewers as well.
53	5.0 Policy Note (Administration)
54	5.1 It is the responsibility of the Method Sponsor to notify the AOAC RI when changes are
55	made to a certified method. See the Modification Guidance Table for additional
56	information. Level 1, 2 and 3 changes are required to be reported prior to implementation
57	of modification.
58	5.2 Failure to appropriately notify the AOAC RI of changes may result in cancellation of the
59	certificate.
60	5.3 Method Sponsors are contractually obligated to provide documentation to the AOAC RI if
61	reportable changes are made to a certified method. The AOAC RI will determine the extent
62	of the documentation required (e.g., updated Instructions for use, and report including
63	appropriate data).
64	5.4 Following the Modification Guidance Table, some changes do not require notification to
65	the AOAC RI (e.g., changes to non-critical physical materials, kit production, quality control
66	procedures). In these instances, there are expectations for internal data collection by the
67	Method Sponsor. Any changes to performance claims must be reported.
68	5.5 When documentation is required, the Method Sponsor must submit a modification
69	application with the corresponding fee. Fees to review modifications are based on the level
70	of modification (Section 6.0). Consulting applications are highly recommended.
70 71	5.5.1 Consulting applications are required for testing protocol review and approval by
72	the AOAC RI Volunteer Expert regardless of whether the Technical Consultant or
73	Method Sponsor drafted the protocol.
73 74	5.6 A method that is modified and re-approved by the AOAC RI is considered an extension of
75	the original certificate. The modification record is included on the certificate.
76	6.0 Levels of Modifications
77	6.1 Check the modification guidance table to determine whether the modification is internal
78	information, level 1 editorial review, level 1 with data review, level 2 or level 3. If the
79	change is not listed in the modification guidance table, contact AOAC RI.
80	6.2 Internal Information – A modification that typically does not require AOAC RI review.
81	Internal study design suggestions can be found within the modification guidance table. If
82	the new process falls outside of the performance claims (within Method Sponsors quality
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83 84		management system tolerance), change must be reported to AOAC RI as a level 2 modification.
85	6 3	Level 1 modification editorial review – These changes are typically editorial. Notification is
86	0.5	not required prior to implementation. These can be submitted at any time during the year
87		OR during annual renewals. Level 1 rebranding modifications must be approved prior to
88		implementation.
89	6.4	Level 1 modification with data review – For manufacturers that are not ISO 9001 or 13485
90	0.1	certified, there are some level 1 changes that require data submission. Discuss with AOAC
91		RI Technical Consultant for data requirements. Changes with required data must be
92		approved prior to implementation.
93	6.5	Level 2 modification reviews – These changes require data submission and review. Protocol
94	0.0	review by AOAC RI is strongly recommended. Review timelines can be requested. The
95		Method Sponsor must use the AOAC RI $PTM/R^2$ report template to submit a properly
96		formatted report with appropriate data, revised instructions for use, and new labeling if
97		warranted. The most current AOAC RI PTM/ $R^2$ report template can be obtained by
98		contacting AOAC RI. The modification must be approved by the AOAC RI before a Method
99		Sponsor may use the certification mark on a modified test method.
100	6.6	Level 3 modification reviews – These changes require data submission, an independent
101		laboratory study and review. Protocol review by AOAC RI is strongly recommended. Review
102		timelines can be requested. An AOAC RI Technical Consultant prepares the independent
103		laboratory protocol. The Method Sponsor must use the AOAC RI PTM/R <sup>2</sup> report template to
104		submit a properly formatted report with appropriate data, revised instructions for use, and
105		new labeling if warranted. The most current AOAC RI $PTM/R^2$ report template can be
106		obtained by contacting AOAC RI. The modification must be approved by the AOAC RI
107		before a Method Sponsor may use the certification mark on a modified test method.
108	7.0 How To	Use
109	7 1	The guidelines in the Modification Guidance Table provide a standardized approach for a
1109	7.1	wide range of scenarios, however it is not all-inclusive. For any modification not covered by
111		the Modification Guidance Table, contact AOAC RI for appropriate actions. The
112		Modification Guidance Table can be found on the AOAC RI website.
113	7.2	Navigate to the appropriate method type tab (e.g., Immunodiagnostics).
114		The method type tabs will describe potential changes and provide details on the
115	7.5	modification level and the study design for each.
116	7.4	The study design tab will detail the testing requirements.
117		Method Sponsors are advised to discuss modifications requiring data submission with an
118	7.5	AOAC RI Technical Consultant prior to conducting any of the work in the Modification
119		Guidance Table.
120	7.6	For changes listed as internal information, Method Sponsors should follow their internal
121		quality management system. Method Sponsors can contact their AOAC RI Technical
122		Consultant for assistance if needed.
123	80 Urgent	Need Modification

123 8.0 Urgent Need Modification

124 125 126 127	8.1 An urgent need modification may be warranted if there are raw material shortages, raw material regulatory changes, equipment failures, unexpected performance issues or other circumstances which require an urgent modification to keep certified methods available to end users.
128 129	<ul><li>8.2 Urgent need modifications are only relevant to level 1 and level 2 modifications.</li><li>8.3 When an urgent need modification is desired, the following steps should be followed:</li></ul>
130 131 132	8.3.1 The Method Sponsor reaches out to the Sr. Director of the AOAC RI and an AOAC RI Technical Consultant requesting an urgent need modification. The following information must be provided:
133 134 135 136 137	<ul> <li>8.3.1.1 Kit name, part number and PTM/R<sup>2</sup> number</li> <li>8.3.1.2 Description of the change</li> <li>8.3.1.3 Justification for urgent need modification rather than standard timeline</li> <li>8.3.1.4 Preliminary data</li> </ul>
138 139 140 141	8.3.2 AOAC RI will review the information and decide whether the urgent need modification will be granted. If it is granted, the Method Sponsor must fill out the standard PTM/R <sup>2</sup> modification application noting that this has been approved as an urgent need modification.
142 143 144	8.3.3 The Technical Consultant will set a timeline for the project, including agreed upon dates and party responsibilities. The Method Sponsor will approve the timeline.
145 146	8.3.4 The Method Sponsor may implement the change before the study and review are completed.
147 148	8.3.5 The Method Sponsor and AOAC RI then work together to complete the project on the agreed upon timeline.
149 150 151 152 153 154	<ul> <li>8.3.5.1 If the timeline falls behind due to AOAC RI Technical Consultants, staff or experts, there is no effect on the project.</li> <li>8.3.5.2 If the timeline falls behind due to the Method Sponsor, the Method Sponsor can request a timeline extension from AOAC RI. Failure to meet agreed upon timelines or timeline extensions, could result in loss of the PTM/R<sup>2</sup> certificate.</li> </ul>
155	9.0 Group Modifications
156 157	9.1 Group Modifications or modifications to related methods may be submitted as one modification, provided the following:
158 159	9.1.1 The modification requested applies to all methods (e.g., a reagent used by all methods is modified from liquid lyophilized form).
160 161	9.1.2 All methods share a common methodology (e.g., PCR, lateral flow, ELISA) and instrumentation.

- 162 9.2 If the criteria above are satisfied, the Method Sponsor can submit one modification
  163 application. The fee schedule for group modifications can be found on the AOAC RI
  164 website.
- 1659.3Method Sponsors should contact an AOAC RI Technical Consultant to determine166modification level and if method modifications can be grouped.
- 167 10.0 Approval of Modifications or Extensions
- 168 Method Sponsors will be notified in writing when their modification(s) are approved. The AOAC
- 169 RI website "List of Certified Methods" will be updated to reflect any new claims and the
- 170 certificate will be updated to include the modification information.