

Certificate of Accreditation: Supplement
Flexible Scope Training

Contact Name: Claudia Coles Phone: 206-619-9850
Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD, METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT

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Fixed Vs Flexible scopes

- ✓ Fixed scope
- »» A defined scope where the Conformity Assessment Body (CAB) does not make changes to the items, parameters, procedures, etc. identified
- 📄 Flexible scope
- ⚠ A scope where the CAB may be reactive to client needs where there is flexibility regarding the method, the item under test, or analyte/measurand

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Flexible Scope Possibilities

A flexible scope can be established based on degrees of freedom for flexibility such as:

- Introduction of the testing of a new item, material, matrix, or product for an accredited test method;
- Introduction of a new version of an accredited standard method (with no modifications);
- Introduction of a new parameter/component/analyte to an accredited test method;
- Introduction of a new version or modifications of an accredited non-standard method
- Introduction of a new method that is equivalent to an accredited method (using same technology or technique)



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Flexible scopes not new

- Steffen, B. (2002). The flexible scope of accreditation. *Accreditation and Quality Assurance*. 7. 25-28. 10.1007/s00769-001-0395-1

Abstract

The scope of accreditation for testing laboratories can inhibit, in certain cases, their quick response to customers needs, if the scope is too rigid with regard to the modification of test methods and the introduction of new ones using the same measurement principles.



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Examples of flexibility found in current scopes



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Example 1

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AccuScience Laboratories LLC
40 South Dewey Street, Eustis, FL 32736
Contact Name: Harry Behzadi Phone: 407-342-5755

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Chemical F	Cannabis Plant Material, Hemp Plant Material, Marijuana Infused Products, Cannabis Extracts, Hemp Plant Material and Extracts, Food	FL Requirements for Pesticides: Diazinon Dichlorvos Dimethoate Dimethomorph Ethoprophos Etofenprox Etoxazole Fenhexamid Fenoxycarb (Fenpyroximate Fipronil Flonicamid Fludioxonil	Internal SOP LABSOP18.0

Introduction of the testing of a new item, material, matrix, or product for an accredited test method

Introduction of a new version or modifications of an accredited non-standard method

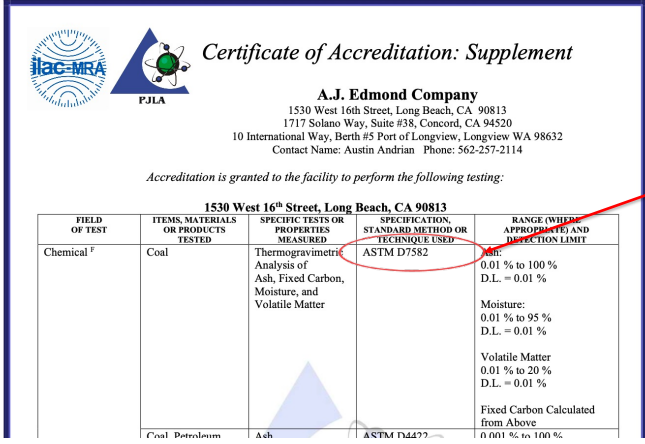
No Revision ID



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Example 2



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A.J. Edmond Company
 1530 West 16th Street, Long Beach, CA 90813
 1717 Solano Way, Suite #38, Concord, CA 94520
 10 International Way, Berth #5 Port of Longview, Longview WA 98632
 Contact Name: Austin Andrian Phone: 562-257-2114

Accreditation is granted to the facility to perform the following testing:

1530 West 16th Street, Long Beach, CA 90813

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Coal	Thermogravimetric Analysis of Ash, Fixed Carbon, Moisture, and Volatile Matter	ASTM D7582	0.01 % to 100 % D.L. = 0.01 % Moisture: 0.01 % to 95 % D.L. = 0.01 % Volatile Matter 0.01 % to 20 % D.L. = 0.01 % Fixed Carbon Calculated from Above
		Ash	ASTM D4477	0.001 % to 100 %

Introduction of a new version of an accredited standard method (with no modifications)
(No Revision Identifier)

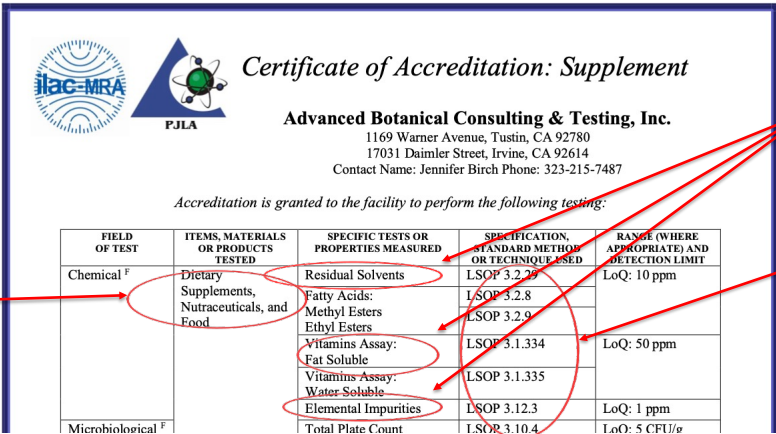
This was published as:

ASTM D7582-09
 ASTM D7582-10
 ASTM D7582-12
 ASTM D7582-15

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Example 3



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Advanced Botanical Consulting & Testing, Inc.
 1169 Warner Avenue, Tustin, CA 92780
 17031 Daimler Street, Irvine, CA 92614
 Contact Name: Jennifer Birch Phone: 323-215-7487

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Dietary Supplements, Nutraceuticals, and Food	Residual Solvents	LSOP 3.2.29	LoQ: 10 ppm
		Fatty Acids:	LSOP 3.2.8	
		Methyl Esters	LSOP 3.2.9	
		Ethyl Esters	LSOP 3.1.334	LoQ: 50 ppm
		Vitamins Assay:	LSOP 3.1.335	
		Fat Soluble Water Soluble	LSOP 3.12.3	LoQ: 1 ppm
Microbiological ^F		Elemental Impurities	LSOP 3.10.4	LoQ: 5 CFU/g
		Total Plate Count	LSOP 3.10.4	

Introduction of a new parameter/component/analyte to an accredited test method

Introduction of a new version or modifications of an accredited non-standard method

Note: Had to confirm CAB uses REV A,B,C format

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Example 4

Introduction of the testing of a new item, material, matrix, or product for an accredited test method

Introduction of a new parameter/ component/ analyte to an accredited test method

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Japan Chemical Analysis Center
295-3 Sannocho Inage-ku Chiba-shi, Chiba 263-0002
Contact Name: Keisuke Isogai Phone: 043-423-5325

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ¹	Nutritional supplements	Anabolic agents β2 agonists Hormone and metabolic modulators Diuretics and masking agents Stimulants Narcotics Glucocorticoids β-blockers For detailed supplements, see the list in the SOP for Supplement Inspection.	SOP for Supplement Inspection (SP-110) (In-house method) HPLC/MS/MS	0.1 ng/g to 100 ng/g (mL)

Introduction of a new version or modifications of an accredited non-standard method



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Example 5

Introduction of the testing of a new item, material, matrix, or product for an accredited test method

Introduction of a new parameter/ component/ analyte to an accredited test method

Introduction of a new method that is equivalent to an accredited method (using same technology or technique)

CAB has ~50 SOPs for specific products

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Green Laboratories, LLC
2 Inland Farm Road, Windham, ME 04062
Contact Name: Karl Ringel Phone: 207-893-2364

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ¹	Botanicals	Analytes such as, but not limited to: Withanolides, Fulvic Acid, Oleuropein, Eleutherosides, Rosavins, Schizandrin, etc. Analytes such as, but not limited to: Fatty Acids, Ethoxime, Ethanol, etc. Analytes such as, but not limited to: Proanthocyanidins, Phytosterols, Polyphenols, etc. Analytes such as, but not	HPLC GC UV-Vis Gravimetry	0.01 % w/w to 100 % w/w 0.01 % w/w to 100 % w/w 0.5 % w/w to 100 % w/w 0.5 % w/w to 100 % w/w



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Flex Codes

Flex Code	Degree of Flexibility
F1	Introduction of the testing of a new item, material, matrix, or product for an accredited test method
F2	Introduction of a new version of an accredited standard method (with no modifications)
F3	Introduction of a new parameter/component/analyte to an accredited test method
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Scopes

Flex Code	Degree of Flexibility
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Example 1 Revisited

FROM

TO



Certificate of Accreditation: Supplement

AccuScience Laboratories LLC
40 South Dewey Street, Eustis, FL 32736
Contact Name: Harry Behzadi Phone: 407-342-5755

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Chemical ¹	Cannabis Plant Material, Hemp Plant Material, Marijuana Infused Products, Cannabis Extracts, Hemp Plant Material and Extracts, Food	FL Requirements for Pesticides: Diazinon Dichlorvos Dimethoate Dimethomorph Ethoprophos Etofenprox Etoxazole Fenhexamid Fenoxycarb (Fenpyroximate Fipronil Flonicamid Fludioxonil	Internal SOP LABSOP18.0



Certificate of Accreditation: Supplement

AccuScience Laboratories LLC
40 South Dewey Street, Eustis, FL 32736
Contact Name: Harry Behzadi Phone: 407-342-5755

Accreditation is granted to the facility to perform the following testing:

FLEXIBILITY CODE	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
F1, F4	Chemical ¹	Cannabis Plant Material Hemp Plant Material Marijuana Infused Products Cannabis Extracts	Terpene Analysis: alpha-Terpinene d-Limonene p-Isopropyltoluene Ocimene Alpha-Pinene	Internal SOP LABSOP17

¹ Flex Code Degree of Flexibility

F1	Introduction of the testing of a new item, material, matrix, or product for an accredited test method
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Example 1 Revisited



Certificate of Accreditation: Supplement

AccuScience Laboratories LLC
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Contact Name: Harry Behzadi Phone: 407-342-5755

Accreditation is granted to the facility to perform the following testing:

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F1, F4	Chemical ¹	Cannabis Plant Material Hemp Plant Material arjjuana Infused oducts nabis Extracts mp Plant aterial and Extracts od	Terpene Analysis: alpha-Terpinene d-Limonene p-Isopropyltoluene Ocimene Alpha-Pinene Camphene Beta-Pinene Beta-Myrcene Delta-3-carene gamma-Terminene	Internal SOP LABSOP17

¹ Flex Code Degree of Flexibility

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Example 2 Revisited

FROM

TO




Certificate of Accreditation: Supplement

A.J. Edmond Company
 1530 West 16th Street, Long Beach, CA 90813
 1717 Solano Way, Suite #38, Concord, CA 94520
 10 International Way, Berth #5 Port of Longview, Longview WA 98632
 Contact Name: Austin Andrian Phone: 562-257-2114

Accreditation is granted to the facility to perform the following testing:

1530 West 16th Street, Long Beach, CA 90813

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Coal	Thermogravimetric Analysis of Ash, Fixed Carbon, Moisture, and Volatile Matter	ASTM D7582	Ash: 0.01 % to 100 % D.L. = 0.01 % Moisture: 0.01 % to 95 % D.L. = 0.01 % Volatile Matter 0.01 % to 20 % D.L. = 0.01 % Fixed Carbon Calculated from Above 0.01 % to 100 %
	Coal, Petroleum	Ash	ASTM D4422	0.01 % to 100 %




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 10 International Way, Berth #5 Port of Longview, Longview WA 98632
 Contact Name: Austin Andrian Phone: 562-257-2114

Accreditation is granted to the facility to perform the following testing:

1530 West 16th Street, Long Beach, CA 90813

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
F2	Chemical ^F	Coal	Thermogravimetric Analysis of	ASTM D7582

⁺ Flex Code Degree of Flexibility

F1	Introduction of the testing of a new item, material, matrix, or product for an accredited test method
F2	Introduction of a new version of an accredited standard method (with no modifications)
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Example 2 Revisited



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 1717 Solano Way, Suite #38, Concord, CA 94520
 10 International Way, Berth #5 Port of Longview, Longview WA 98
 Contact Name: Austin Andrian Phone: 562-257-2114

Accreditation is granted to the facility to perform the following testing:

1530 West 16th Street, Long Beach, CA 90813

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
F2	Chemical ^F	Coal	Thermogravimetric Analysis of Ash, Fixed Carbon, Moisture, and Volatile Matter	ASTM D7582
F2		Coal, Petroleum	Ash	ASTM D4422
F2		Coke	Bulk Density	AJE Method 29
F2			Calcined Coke Preparation	ASTM D6969
F2			Calcined Coke Sammline	ASTM D6970

⁺ Flex Code Degree of Flexibility

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Example 3 Revisited

FROM


TO



Certificate of Accreditation: Supplement
Advanced Botanical Consulting & Testing, Inc.
 1169 Warner Avenue, Tustin, CA 92780
 17031 Daimler Street, Irvine, CA 92614
 Contact Name: Jennifer Birch Phone: 323-213-7487

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFIC UNION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Dietary Supplements, Nutraceuticals, and Food	Residual Solvents	LSOP 3.2.29	LoQ: 10 ppm
		Fatty Acids:	LSOP 3.2.8	
		Methyl Esters	LSOP 3.2.9	
		Ethyl Esters	LSOP 3.1.334	LoQ: 50 ppm
		Vitamins Assay: Fat Soluble	LSOP 3.1.335	
		Vitamins Assay: Water Soluble	LSOP 3.1.2.3	LoQ: 1 ppm
Microbiological ^F		Elemental Impurities	LSOP 3.10.4	LoQ: 5 CFU/g
		Total Plate Count		



Certificate of Accreditation: Supplement
Advanced Botanical Consulting & Testing, Inc.
 1169 Warner Avenue, Tustin, CA 92780
 17031 Daimler Street, Irvine, CA 92614
 Contact Name: Joseph Dennis Phone: (714) 259-0384

Accreditation is granted to the facility to perform the following testing:

FLEXIBILITY CODE	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
F1, F3, F4	Chemical ^F	Dietary Supplements, Nutraceuticals, and Food	Residual Solvents	LSOP 3.2.29
F1, F3, F4			Fatty Acids: Methyl Esters	LSOP 3.2.8

^F Flex Code Degree of Flexibility


F1	Introduction of the testing of a new item, material, matrix, or product for an accredited test method
F2	Introduction of a new version of an accredited standard method (with no modifications)
F3	Introduction of a new parameter/component/analyte to an accredited test method
F4	Introduction of a new version or modifications of an accredited non-standard method
F5	Introduction of a new method that is equivalent to an accredited method (using same technology or technique)



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Example 3 Revisited



Certificate of Accreditation: Supplement
Advanced Botanical Consulting & Testing, Inc.
 1169 Warner Avenue, Tustin, CA 92780
 17031 Daimler Street, Irvine, CA 92614
 Contact Name: Joseph Dennis Phone: (714) 259-0384

Accreditation is granted to the facility to perform the following testing:

FLEXIBILITY CODE	FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD
F1, F3, F4	Chemical ^F	Dietary Supplements, Nutraceuticals, and Food	Residual Solvents	LSOP 3.2.29
F1, F3, F4			Fatty Acids: Methyl Esters	LSOP 3.2.8
F1, F3, F4			Fatty Acids: Ethyl Esters	LSOP 3.1.334
	Microbiological		Elemental Impurities	LSOP 3.10.4
			Total Plate Count	

^F Flex Code Degree of Flexibility

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Process

- RAs/SEs/ Non-assessment related updates
 - TPM update draft scope based on perceived flexibility in current scope
 - Assessor and CAB receive draft for assessment related
 - Assessor confirms flexibility (updates codes when applicable),
 - Unless CAB requests fixed scope (assessor assists updates)
 - Includes specifics including method revisions
 - TPM and CAB will review for non-assessment related updates



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Note

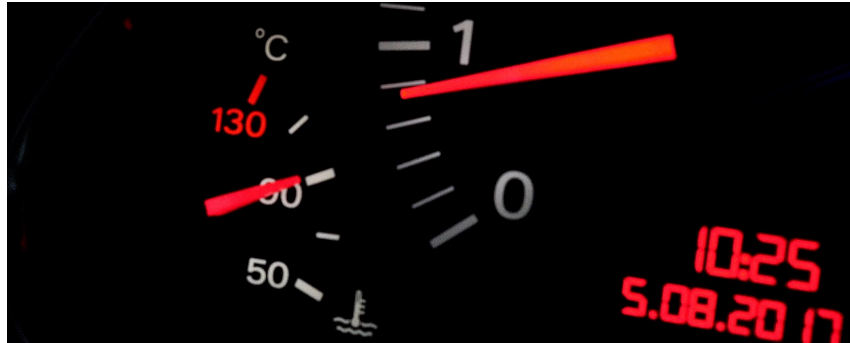
- Some programs may allow some flexibility
- Scope dependent
 - DoD/TNI no revision numbers of methods on scope
 - Currently, will not be identified with Flex Codes
- If there is an equivalent ISO/IEC 17025 scope
 - Table will be added
- Note: As roll-out occurs, this is subject to change.



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Impact on CABs/Assessors & Assessment Process



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CABs to establish



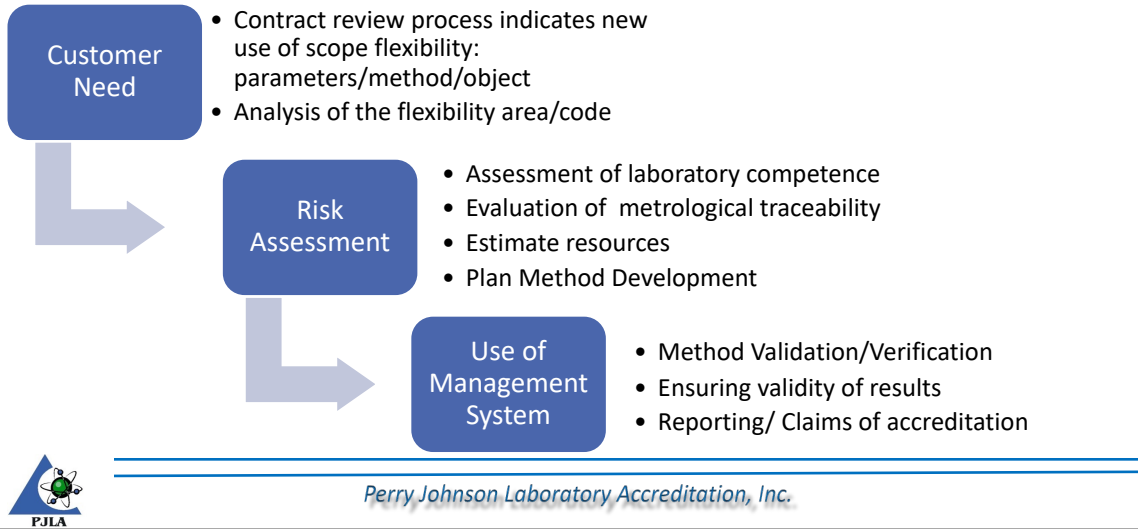
**Management system controls for maintaining
a flexible scope of accreditation**



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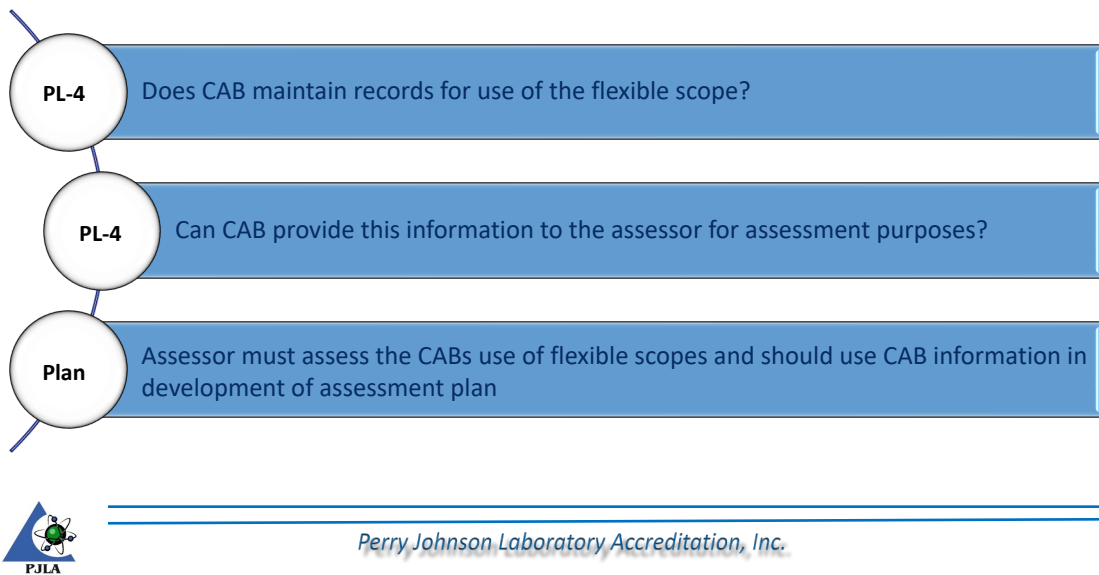
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Possible Customer Approach



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Considerations for Assessing



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Considerations for Assessing

- 7.1 Contract review triggers process for CAB for use of flexible scope
- 7.1 When review of contracts to determine that test falls within flexible scope of accreditation, what information given to customer?
- 8.5 Risk/opportunity assessment (should include relevant process requirements such as resource review)



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Considerations for Assessing

- 6.2 Personnel and competence related to method validation/verification, testing
- 6.3 Evaluation that facilities/ environmental conditions do not impact change, especially if new material or product is tested
- 6.4 Equipment is available and appropriate for intended use (prep and determinative)



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Considerations for Assessing

- 6.5 Metrological traceability can be met for flexibility change (CRMs available, if not, how is metrological traceability demonstrated)
- 7.2 Evaluation of validation/verification of use of flexibility.
If addition of parameter/analyte no impact on other analytes?
- 7.5 Technical records available for use of flexibility



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Considerations for Assessing

- 7.6 Evaluation of mU for flexibility change
- 7.7 How is validity of results ensured for flexibility change
- 7.8 SOP3 Reporting of results/Claims of accreditation. Check to see that only reported as accredited only when CAB flexibility process is complete



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Thank you!



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