

20-Apr-20
 ASB Std 130, Standard for Training in Forensic DNA Amplification Methods using Capillary Electrophoresis Sequencing

#	Section	Type of Comment (E-Editorial, T-Technical)	Comments	Proposed Resolution	Final Resolution
1	Title	E	Confusing title: sounds like you are using CE Sequencing for Amplification	Forensic Laboratory Standard for Training in Amplification of DNA for Capillary Electrophoresis Sequencing	Accept with modification: title revised to: Standard for Training in Forensic DNA Amplification Methods for Subsequent Capillary Electrophoresis Sequencing
6	Title (pg 1)	E	The word "using" should be changed to "for" (see original title). DNA amplification does not <i>use</i> capillary electrophoresis, it <i>precedes</i> electrophoresis	Change "using" to "for"	Accept with modification: title revised to: Standard for Training in Forensic DNA Amplification Methods for Subsequent Capillary Electrophoresis Sequencing
7	Title (pg 2)	E	Same as above	Change "using" to "for"	Accept with modification: title revised to: Standard for Training in Forensic DNA Amplification Methods for Subsequent Capillary Electrophoresis Sequencing
9	Title (pg 5)	E	Same as above	Change "using" to "for"	Accept with modification: title revised to: Standard for Training in Forensic DNA Amplification Methods for Subsequent Capillary Electrophoresis Sequencing
8	Keywords	E	"amplification for sequencing" is vague	Change to "DNA amplification for sequencing"	Accept
13	3.2	E	This is the only definition that has a footnote	remove footnote	Accept. See email from J. Butler.
14	Definitions: Chloroplast DNA	E	Chloroplast DNA was removed from the definitions list	This document was designed for both human mtDNA and wildlife, including plants. Amplification of plant DNA for CE sequencing is identical to any other DNA, thus it makes no sense to produce a separate standard for it.	Reject. Document will not cover plants, term is not necessary.
2	4.1	E	redundant, wordy	ANSI/ASB Standard 022, <i>Standard for Forensic DNA Analysis Training Programs</i> provides foundational training requirements for DNA analysts. It shall be used with this document, which outlines further specific requirements.	Accept.
3	4.2.1	E	redundant, wordy. "Fundamental principles" and "theory" are arguably the same thing	"The laboratory's training program shall provide the trainee with an understanding of the fundamental principles behind DNA amplification for CE sequencing,..."	Accept.
15	section 4.2.2	E	"see Annex A" removed for references	Add back	Reject. Commenter withdrew comment (during WG meeting on 6/15/2020) based on revisions to Annex A.
4	4.2.2, 4.2.3	E	4.2.2 mandates the "training program shall require review of" and 4.2.3 mandates "the training program shall cover" . Is there a difference between coverage and review, or can these be merged under one heading?	Either better explain the difference intended between depth of coverage of these two sections, or merge 4.2.2 and 4.2.3 bullets under one heading (an expanded 4.2.2)	Reject. Format, wording, and requirements are consistent with Standards 023, 110, 115, 116
10	4.2.3 b) 2)	E	i and ii not aligned	align	Accept
16	section 4.2.3 b) iii)	T	"coding and transgenic spacer regions" was for Chloroplast DNA. While coding DNA makes sense for taxonomic identification, spacer regions would not be targeted in animals.	if chloroplast DNA is being removed from the document; then transgenic spacer regions should be removed. If chloroplast DNA is staying in the document, then it should be under chloroplast DNA.	Accept
11	4.2.3 b) and c) 1) 2) etc,		Capitalization	Here and throughout: make capitalization consistent. For instance b) 1) - 4) have the first word capitalized, while c) 1) - 5) are lower case	Capitalization based on if items are a sentence or sentence fragment. ASB Staff will ensure consistency prior to publishing.
17	4.2.3 c)	E	Section 4.2.3 (c) was added. c) 3 seems repetitive with d) 3.	remove?	Accept with modification. Modified section c) to incorporation section d)
12	4.2.3 d) 3)	T	sodium hypochlorite and bleach are the same thing	remove one or change to: "sodium hypochlorite (bleach)"	Accept and added "surfactants"
19	4.2.3; e	T	DNA separation and detection were added. These have to do with DNA sequencing and are not part of this <i>DNA amplification</i> standard	This should be removed. This standard is for the <i>amplification</i> process, not the actual CE process, which is standard 131.	Reject with modification. Item modified for clarification: "Quality control to include appropriate positive and negative controls."
18	4.2.3; h 2	E	The word 'evaluation' seems odd, as the DNA quant is to <i>determine</i> the amount of amplicon present.	replace "evaluation" with "determination"	Accept with modification, replaced "evaluation" with "estimation" per suggestion of commenter during WG meeting on 6/15/2020

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20	4.2.3; i) 2) and 5)	E	2) DNA separation and detection instruments and parameters and 5) storage of DNA separation reagents are not appropriate. This standard is about <i>DNA amplification</i> , not about the subsequent CE process.	remove	Accept with modification. 2) removed. 5) revised to remove "DNA separation"
21	4.2.3; j) 2)	E	DNA detection error is not appropriate. This standard is about <i>DNA amplification</i> , not about the subsequent CE process.	remove	Accept
22	Bibliography	E	The references have been changed substantially, and are now human-centric. The references for human databasing do not seem appropriate. Many of the references (e.g. Holland and Parsons) are extremely dated, and even contain information that today we know to be inaccurate.	Update and improve references	Accept
5	Bibliography	E	several irrelevant refs dealing with interpretation of sequencing results are carried over from other docs	strike refs 5, 7, and 9	Accept