

**University of Arkansas (“University”) Invitation for Bid No. R542524; Due
September 18, 2014 by 2:30 PM; Life Technologies Corporation (“Life”) Quote
No. S1064222**

VOLUNTARY PRODUCT ACCESSIBILITY TEMPLATE

Voluntary Product Accessibility Template

Version 1.1
8/3/01

The purpose of the Voluntary Product Accessibility Template is to assist Federal contracting officials in making preliminary assessments regarding the availability of commercial Electronic and Information Technology products and services with features that support accessibility. It is assumed that offerers will provide additional contact information to facilitate more detailed inquiries.

The first table of the Template provides a summary view of the section 508 Standards. The subsequent tables provide more detailed views of each subsection. There are three columns in each table. Column one of the Summary Table describes the subsections of subparts B and C of the Standards. The second column describes the supporting features of the product or refers you to the corresponding detailed table, "e.g., equivalent facilitation." The third column contains any additional remarks and explanations regarding the product. In the subsequent tables, the first column contains the lettered paragraphs of the subsections. The second column describes the supporting features of the product with regard to that paragraph. The third column contains any additional remarks and explanations regarding the product.

Date: 8th September 2014

Name of Product: 3500 Series Genetic Analyzers: 3500, 3500xL , 3500 Dx and/or 3500xL Dx

Contact for more Information: James Vaughn

**Summary Table
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
Section 1194.21 <u>Software Applications and Operating Systems</u>	Windows 7	Instrument operating SW is provided and secondary analysis applications are available for purchase
Section 1194.22 <u>Web-based internet information and applications</u>	Not applicable	3500 Series Genetic Analyzers have no

		connection to the internet
Section 1194.23 <u>Telecommunications Products</u>	Not applicable	The 3500 Series Genetic Analyzers have no telecommunication functionality (i.e., phone)
Section 1194.24 <u>Video and Multi-media Products</u>	Not applicable	The 3500 Series Genetic Analyzers have no video or multimedia product
Section 1194.25 <u>Self-Contained, Closed Products</u>	No	The 3500 Series Genetic Analyzers are designed to allow users to place their samples into the instrument to allow for genetic analysis of the sample of interest
Section 1194.26 <u>Desktop and Portable Computers</u>	Yes	The 3500 Series Genetic Analyzers come with a Dell Desktop or Laptop system
Section 1194.31 <u>Functional Performance Criteria</u>	Yes	Attached are the specifications of the instrument

[Return to the top of the page.](#)

**Section 1194.21 Software Applications and Operating Systems - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the	Yes	The user interface supports this feature

result of performing a function can be discerned textually.

(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.

Yes

No accessibility features are deactivated

(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.

Yes

User interface supports an active screen as an indication of the current focus

(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.

Yes

Information conveyed by the image is also be available in text

(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.

Yes

No bitmap images are used

(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.

Yes

Textual information is available on the user interface

(g) Applications shall not override user selected contrast and color selections and

Yes

Program does not access these

other individual display attributes.		functions and cannot override them
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Not Applicable	No animation is used
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Yes	Textual information is provided next to colored action items
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	Not supported	There is an option to set color in selection of assay settings but no contrast level is provided
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	Not applicable	Software does not use any flashing or blinking texts
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues. <u>Return to the top of the page.</u>	Not applicable	No electronic forms are used

**Section 1194.22 Web-based Internet information and applications - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(b) Equivalent alternatives for any multimedia presentation shall be	Not Applicable	3500 Series Genetic Analyzers use

synchronized with the presentation.		installable desktop secondary analysis applications
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(g) Row and column headers shall be identified for data tables.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis applications
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	3500 Series Genetic Analyzers use installable desktop secondary analysis

<p>(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.</p>	<p>Not Applicable</p>	<p>applications 3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>
<p>(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.</p>	<p>Not Applicable</p>	<p>3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>
<p>(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).</p>	<p>Not Applicable</p>	<p>3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>
<p>(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	<p>Not Applicable</p>	<p>3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>
<p>(o) A method shall be provided that permits users to skip repetitive navigation links.</p>	<p>Not Applicable</p>	<p>3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>
<p>(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.</p>	<p>Not Applicable</p>	<p>3500 Series Genetic Analyzers use installable desktop secondary analysis applications</p>

Note to 1194.22: The Board interprets paragraphs (a) through (k) of this section as consistent with the following priority 1 Checkpoints of the Web Content Accessibility Guidelines 1.0 (WCAG 1.0) (May 5 1999) published by the Web Accessibility Initiative of the World Wide

Web Consortium: Paragraph (a) - 1.1, (b) - 1.4, (c) - 2.1, (d) - 6.1, (e) - 1.2, (f) - 9.1, (g) - 5.1, (h) - 5.2, (i) - 12.1, (j) - 7.1, (k) - 11.4.

[Return to the top of the page.](#)

**Section 1194.23 Telecommunications Products - Detail
Voluntary Product Accessibility Template**

Criteria	Supporting Features	Remarks and explanations
(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	Not applicable	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Not applicable	
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not applicable	
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.	Not applicable	
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	Not applicable	
(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum	Not applicable	

of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.

(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.

Not applicable

(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.

Not applicable

(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.

Not applicable

(j) Products that transmit or conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.

Not applicable

(k)(1) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactilely discernible without activating the controls or keys.

Supported

The switches on the instrument are push switches that are tactilely discernible

(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs.

Supported

(22.2N) maximum.

(k)(3) Products which have mechanically operated controls or keys shall comply with the following: If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.

Not applicable

(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.

Supported

[Return to the top of the page.](#)

**Section 1194.24 Video and Multi-media Products - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
a) All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast,	Not applicable	The 3500 Genetic Analyzers do not use television displays

cable, videotape, and DVD signals.		
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not applicable	
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	Not applicable	User guides and manuals are in written .pdf format
(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	Not applicable	User guides and manuals are in written .pdf format
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	No applicable	User guides and manuals are in written .pdf format
<u>Return to the top of the page.</u>		

**Section 1194.25 Self-Contained, Closed Products - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	Not supported	The 3500 Series Genetic Analyzers require physical interface to load samples
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supported	Timed responses require user input to execute next instruction.
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies	Not Supported	

<p>with §1194.23 (k) (1) through (4).</p> <p>(d) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.</p>	<p>Not applicable</p>	<p>No biometric forms of user identification or control are used</p>
<p>(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.</p>	<p>Not applicable</p>	<p>There is no auditory output provided by the Chef instrument</p>
<p>(f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.</p>	<p>Not applicable</p>	<p>There is no voice output provided by the chef instrument</p>
<p>(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p>Supported</p>	<p>In addition to color, text and graphics are also used to convey information</p>
<p>(h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.</p>	<p>Support color but not contrast</p>	<p>A range of color selections are provided but not contrast setting</p>
<p>(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Supported</p>	<p>The screen refreshes at 75Hz</p>
<p>(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following:</p>	<p>Not applicable</p>	<p>This is a portable device that is intended to sit on top of a laboratory</p>

The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.

bench

(j)(2) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches maximum and 15 inches minimum above the floor.

Not applicable

This is a portable device that is intended to sit on top of a laboratory bench

(j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor.

Not applicable

This is a portable device that is intended to sit on top of a laboratory bench

(j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.

Not applicable

This is a portable device that is intended to sit on top of a laboratory bench

[Return to the top of the page.](#)

**Section 1194.26 Desktop and Portable Computers - Detail
Voluntary Product Accessibility Template**

Criteria

Supporting Features

Remarks and explanations

(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).

Supported

Use of standard commercially available computers

		and keyboards is employed
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Not applicable	
(c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not applicable	
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Supported	These instruments use commercially available computers that comply with industry standards
<u>Return to the top of the page.</u>		

**Section 1194.31 Functional Performance Criteria - Detail
Voluntary Product Accessibility Template**

<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Does not support	There is no aural or tactile alternative to interfacing with the 3500 Series Genetic Analyzers
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Does not support	There is no aural or tactile alternative to interfacing with the 3500 Series Genetic Analyzers
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support	Supported	Visual information retrieval is available

for Assistive Technology used by people who are deaf or hard of hearing shall be provided

(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.

Not applicable

Audio information is not important for the operation of the 3500 Series Genetic Analyzers

(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.

Supported

Visual information retrieval is available

(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.

Supported

Information retrieval is through control of the instrument via a keyboard and monitor that can be positioned to accommodate user needs

[Return to the top of the page.](#)