Annex

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**Specimens produced through biotechnology**

**A) CITES permits and certificates issued or requested for specimens produced through biotechnology:**

1) Please provide information regarding cases where the Management Authority of your country has issued, or received requests to issue, CITES permits and certificates for specimens produced through biotechnology since 2014. Relevant cases may range from specimens directly produced from cells or tissue of individuals of CITES-listed species, to a complete ‘*de novo*’ synthesis without any direct involvement of individuals of CITES-listed species.

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| Year | Products | Species | Technology | Results |
| 2017 | Cells | *Chlorocebus aethiops* | Cell culture | Export permits\* |
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 Note: \* An example as shown in Annex 3 to the SC70 Doc. 33

2) Please indicate how the Management Authority interpreted the term ‘readily recognizable’ with respect to these applications and how you addressed the potential identification and enforcement challenges of these specimens.

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**B) Situations where CITES authorities have applied Resolution Conf 9.6 (Rev. CoP16) to specimens produced through biotechnology:**

 1) What is the approach taken by the Management Authority of your country to establish that a specimen has been produced through biotechnology?

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 2) Are different approaches taken depending on the technology used, the taxon or the Appendix in which a species is listed?

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**C) Technological developments and applications that may result in the manufacture of specimens produced through biotechnology that may have an impact on CITES:** The main elements to be considered from a scientific/technological perspective are related to the monitoring of new technological developments in the production of synthetic wildlife products.

1) Please provide information regarding any technological developments and applications that may result in the manufacture of specimens of CITES-listed species produced through biotechnology.

This may include information on: a) existing or potential tools to distinguish between i) natural products, ii) synthetic / cultured products containing DNA that is readily identifiable as having derived from a particular species, and iii) products containing recombinant DNA (i.e. genetically modified) that may contain elements of more than one species or otherwise novel engineered genetic sequences; b) recent technological developments within the field of synthetic biology that produce substitutes for CITES-listed species; and c) any relevant risk management measures and best practices related to CITES implementation.

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2) Please indicate if you think any of these developments may have an impact on the interpretation and implementation of CITES.

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**D) Please indicate how the Management Authority of your country deals with the import of specimens produced through biotechnology:**

1) In the case where the specimen is accompanied by a CITES export permit or re-export certificate and reliable information suggests that the specimens were produced through biotechnology.

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2) In the case where the specimen is of a CITES species and is known reliably to be made through biotechnology, but there is no accompanying CITES export permit or re-export certificate available.

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**E) Please provide any other information, documents or suggestions that could inform the implementation of decisions 18.147 to 18.850 on specimens produced through biotechnology.**

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