



**SPECIAL 510(k) SUBSTANTIAL EQUIVALENCE DETERMINATION
DECISION SUMMARY**

I Background Information:

A 510(k) Number

K243405

B Applicant

Cepheid

C Proprietary and Established Names

Xpert *vanA*

D Regulatory Information

Product Code(s)	Classification	Regulation Section	Panel
NIJ	Class II	21 CFR 866.1640 – Antimicrobial Susceptibility Test Powder	MI – Microbiology
OOI	Class II	21 CFR 862.2570 – Instrumentation for clinical multiplex test systems	CH – Clinical Chemistry

II Review Summary:

This 510(k) submission contains information/data on modifications made to the submitter’s (Cepheid) own **CLASS II** device requiring a 510(k). The following items are present and acceptable.

1. The name and 510(k) number of the SUBMITTER’S previously cleared device.
2. Submitter’s statement that the **INDICATIONS FOR USE/INTENDED USE** of the modified device as described in its labeling **HAS CHANGED** along with the proposed labeling which includes instructions for use and package inserts. These labeling changes are considered minor and do not affect the intended use of the original or modified device.

The changes in the Intended Use/Indications for Use statement of the modified device (K243405) aim to:

- (a) Incorporate the “GeneXpert Instrument Systems” family of instruments—in order to accommodate a new member (the *GeneXpert Infinity System*) of this family—while retaining other instruments in the same family, that were previously cleared with the predicate (K092953).
- (b) Remove the term “rapid” to better align with the assay’s time-to-result.

- (c) Change the modified device name from “Cepheid Xpert *vanA* Assay” to “Xpert *vanA*” in the Intended Use/Indications for Use opening statement.
 - (d) Describe the modified device as a “test” (which incorporates assay and instrument) instead of as an “assay” as was previously done.
3. A description of the device **MODIFICATION(S)**, including clearly labeled diagrams, photographs, user’s and service manuals in sufficient detail to demonstrate that the **FUNDAMENTAL SCIENTIFIC TECHNOLOGY** of the modified device **has not changed**.
 4. Comparison Information (i.e., similarities and differences) to the submitter’s legally marketed predicate device including, labeling, intended use, and physical characteristics.
 5. A Design Control Activities Summary which includes:
 - (a) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components, and the results of the analysis.
 - (b) Based on the Risk Analysis, an identification of the verification activities required, including methods or tests used and acceptance criteria to be applied.

The labeling for this modified subject device has been reviewed to verify that the indication for use/intended use for the device (i.e., detection of *vanA*) is unaffected by the modification. In addition, the submitter’s description of the particular modification(s) and the comparative information between the modified and unmodified devices demonstrate that the fundamental scientific technology has not changed. The submitter has provided the design control information as specified in The New 510(k) Paradigm and on this basis, I recommend the device be determined substantially equivalent to the previously cleared device.