

SPECIAL 510(k): Device Modification  
OIR Decision Summary

To: THE FILE

RE: K161951

This 510(k) submission contains information/data on modifications made to the SUBMITTER'S own Class II, Class III or Class I devices requiring 510(k). The following items are present and acceptable:

1. The name and 510(k) number of the SUBMITTER'S previously cleared device. The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay was cleared under DEN150030.
2. Submitter's statement that the **INDICATION/INTENDED USE** of the modified device as described in its labeling **HAS NOT CHANGED** along with the proposed labeling which includes instructions for use, package labeling, and, if available, advertisements or promotional materials (labeling changes are permitted as long as they do not affect the intended use).
3. A description of the device **MODIFICATION(S)**, including clearly labeled diagrams, engineering drawings, photographs, user's and/or service manuals in sufficient detail to demonstrate that the **FUNDAMENTAL SCIENTIFIC TECHNOLOGY** of the modified device **has not changed**.

**This change was for :**

- a) whole-kit stability (shelf-life) extension from 4.5 months to 9 months.
4. **Comparison Information** (similarities and differences) to applicant's legally marketed predicate device including, labeling, intended use, physical characteristics, and performance studies (real-time closed-kit stability) is shown in the table below.

<b>Summary of Similarities and Differences:</b>		
<b>Characteristic</b>	<b>Predicate Device:</b> The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay	<b>Modified Device:</b> The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay
Intended Use	For the semi-quantitative determination of autoantibodies to Aquaporin-4 in human serum. The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay may be useful as an aid in the diagnosis of Neuromyelitis Optica (NMO) and Neuromyelitis Optica Spectrum Disorders (NMOSD). The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay is not to be used alone and is to be used in conjunction with other clinical, laboratory, and radiological (e.g. MRI) findings.	Same

<b>Summary of Similarities and Differences:</b>		
<b>Characteristic</b>	<b>Predicate Device:</b> The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay	<b>Modified Device:</b> The KRONUS Aquaporin-4 Autoantibody (AQP4Ab) ELISA Assay
Assay Type	Manual ELISA	Same
Shelf-life Stability	4.5 months at 4°C	9.0 months at 4°C

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 and/or validation 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/intended use for the device 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 (or their preamendment) device.