

Tech Tip 0009 - *Product Expiration Date Policy*

In order to ensure the quality of our reference standards, we set expiration dates for all of our products. We will not ship any items within 6 months of the expiration date listed on the certificate of analysis (CofA), unless pre-approved by the customer. If an item is already expired, we will not ship the material.

When standards approach their respective lot's expiration date and inventory is still available, they are re-evaluated at our laboratory. Re-evaluation includes the following:

For Phytochemical Reference Standards:

For both Primary (P) and Analytical (AS) grade standards, purity is reanalyzed using the appropriate analytical technique (typically HPLC or GC).

- When the re-assay results fall within $\pm 5\%$ of the originally listed purity, a date of re-evaluation will be noted on the CofA and the purity data on the certificate of analysis will not be revised.
- When the re-assay results fall outside of the $\pm 5\%$ originally listed purity, there are two possible outcomes:
 - If the material still meets our minimum purity specifications for that grade, we will re-characterize the material and reissue the CofA as a brand new lot.
 - If the material fails to meet our internal minimum purity specifications, then the lot is removed from inventory and the expiration date is not extended.
- Primary Grade standards also have their water content verified by Karl Fischer Titration.

Reagent (RG) lots are re-evaluated by MS or NMR to verify identity.

For Botanical Reference Materials:

- Materials are reanalyzed by TLC for identity.
 - If the TLC results do not deviate from the original TLC data on the CofA, a date of re-evaluation will be noted on the CofA and the existing data on the certificate of analysis will not be revised.
 - If the material fails to meet our internal method requirements for TLC identity, then the lot is removed from inventory and the expiration date is not extended.

For any questions regarding the expiration date policy for our products, please contact your ChromaDex Representative.