

# ChromaDex Product List



## ADULTERATION IN BLACK COHOSH BY HPLC

**FOR:** RAW MATERIALS, FINISHED DOSAGE FORMS  
**ANALYSIS:** HPLC  
**DETECTION:** UV-VIS  
**STANDARDS USED:** MEASURED AS CIMIFUGIN

**BACKGROUND:** Recently Health Canada has sent a letter to Black Cohosh licensees requiring compliance to the modified requisites of accurately identifying *Actaea racemosa*. These efforts are to ultimately eliminate the cross-contamination of other *Actea* and *Cimicifuga* species within such Black Cohosh products. According to Health Canada, because other *Actea* and *Cimicifuga* species contain similar bio compounds such as 27-deoxyactein, current testing protocols may need additional or more specific testing to identify the sole presence of this botanical. Through their letter they've expressed concerns pertaining to the trend of Black Cohosh adulteration whether unintentional or deliberately for economic benefits. It is through these concerns that they have suggested the use of cimiracemoside C and cimifugin as analytes that may provide a more unambiguous method to verifying such uniqueness of *A. racemosa*. Several studies have demonstrated analytical methods of positively identifying Black Cohosh through the compound Cimiracemoside C because of its more select occurrence in the *A. racemosa* species. Conversely, the utility of cimifugin, a compound not present in Black Cohosh but is present in other *Actea* and *Cimicifuga* species, may provide additional non-detect support for the exclusive identity of *A. racemosa*. Among other entities enforcing *Actaea racemosa* identity is Australia's TGA.

NUMBER OF SAMPLES*	PRICE PER SAMPLE**	REPORT***
1	Please Call	Basic
2 - 4	Please Call	Basic
5 - 9	Please Call	Basic
10+	Please Call	Basic
1	Please Call	Detail
2 - 4	Please Call	Detail
5 - 9	Please Call	Detail
10+	Please Call	Detail

Note:

\* The number of samples and associated pricing is based on the total number of samples received at onetime(one shipment).

\*\*Prices are subject to change. For current pricing please contact your local ChromaDex sales office or register on our website to gain access to our on-line catalog. Prices are based on ONE assay per sample, for further assay work please contact your technical sales representative for a custom quote.

\*\*\* **BASIC:** Only one report will be issued per group of samples. This report will list only the results for each individual sample. If individual reports are required please contact your ChromaDex technical sales representative for price information.

**DETAIL:** Only one report will be issued per group of samples. This full report will list all details associated with the analysis:

1. Individual sample results
2. Full analytical method, as run by ChromaDex.
3. Chromatograms for each sample and standards