NSF International Standard
for Dietary Supplements —

Dietary supplements

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7.4 Test methods for chemical contaminants

Testing shall be performed based on ~~USFDA's Method for Determination of Aristolochic Acid in Traditional Chinese Medicines and Dietary Supplements~~ AOAC Official Method 2007.05, Aristolochic Acid I in Botanicals and Dietary Supplements Potentially Contaminated with Aristolochic Acid I (LC-UV with Confirmation by LC/MS), a modification or other scientifically valid method which has been shown to be fit for purpose for the particular sample matrix being tested.

The most appropriate method shall be used to confirm claims that a ~~for the~~ product under evaluation does not contain contaminants. Sources for methods may include AOAC, AHP, USP and other compendial methods. The selected method is to be scientifically valid and fit for the purpose of analysis of the specific sample type being tested. An existing method may need to be modified to better suit the sample under test or improved technology may allow for a more accurate and precise method to be developed. The use of any modified or new method shall require that an assessment be performed which includes evaluation of the specificity, linearity, reproducibility, accuracy, spike recovery, and method detection limit. ~~The source of these methods may include AOAC International, USP, EPA, FDA, AHP, European, German, Japanese monographs, INA, industry standards, etc. The use of any new method shall require that a validation be performed which includes an evaluation of specificity, linearity, reproducibility, spike recovery, and method detection limit. More rigorous validation could follow according to the guidelines of ICH, FDA, CEN, GLP, and/or AOAC, as appropriate.~~

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Annex A
(normative)

Table A1 – Botanicals ~~k~~Known or ~~s~~Suspected to ~~c~~Contain ~~a~~Aristolochic ~~a~~Acid[1]

Aristolochia spp.	*Aristolochia maxima*
Aristolochia acuminata	*Aristolochia mollissima*
Aristolochia argentina	*Aristolochia pistolochia*
Aristolochia baetica	*Aristolochia rigida*
Aristolochia bracteata	*Aristolochia rotunda*

[1] The source of this table is FDA Import Alert #54-10: "Detention Without Physical Examination of Bulk/Finished Dietary Supplement Products Containing Aristolochic Acid" <www.fda.gov/Food/DietarySupplements/Alerts>. ~~an April 19, 2001 U.S. FDA correspondence from the Office of Nutritional Products, Labeling and Dietary Supplements (www.cfsan.fda.gov/~/~dms/ds-bot14.html)~~

Aristolochia chilensis	*Aristolochia serpentaria*
Aristolochia cinnabarina	*Aristolochia watsoni or Aristolochia watsonii*
Aristolochia clematitis	*Aristolochia westlandii or Aristolochia westlandi*
Aristolochia contorta	*Aristolochia zollingeriana*
Aristolochia cymbifera	*Asarum canadense*
Aristolochia debilis	*Asarum crispulatum*
Aristolochia elegans	*Asarum debile*
Aristolochia esperanzae	*Asaum forbesii*
Aristolochia fangchi	*Asarum fukienense*
Aristolochia fimbriata	*Asarum heterotropoides~~heterotrpoides~~*
Aristolochia indica	*Asarum himalaicum~~himalacium~~*
Aristolochia kaempferi	*Asarum maximum*
Aristolochia kwangsiensis	*Asarum sieboldii*
Aristolochia macrophylla	*Asarum splendens*
Aristolochia manshuriensis	*Thottea siliquosa*
Aristolochia maurorum	

~~Asarum himalaycum~~	*~~Cocculus indicus~~*
~~Aristolochia watsonii~~	*~~Cocculus laurifolius~~*
~~Aristolochia westlandi~~	*~~Cocculus leaebe~~*
~~Akebia spp.~~	*~~Cocculus madagascariensis~~*
~~Akebia quinata~~	*~~Cocculus orbiculatus~~*
~~Akebia trifoliate~~	*~~Cocculus palmatus~~*
~~Bragantia wallichii~~	*~~Cocculus pendulus~~*
~~Clematis spp.~~	*~~Cocculus thunbergii~~*
~~Clematis armandii~~	*~~Diploclisia affinis~~*
~~Clematis chinensis~~	*~~Diploclisia chinensis~~*
~~Clematis hexapetala~~	*~~Menispernum dauricum~~*
~~Clematis montana~~	*~~Saussurea lappa~~*
~~Clematis uncinata~~	*~~Sinomenium acutum~~*
~~Cocculus spp.~~	*~~Stephania spp.~~*
~~Cocculus carolinus~~	*~~Stephania tetrandra~~*
~~Cocculus diversifolius~~	*~~Vladimiria souliei~~*
~~Cocculus hirsutus~~	

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