

## **Table 14**

### **Analytically Validated Chemical Assay, Identification Test and Purity Test for Herbal Materials in JP15**



## Analytically validated chemical assay, identification test and purity test for herbal materials in JP15

Herbal materials	Target compound	Purpose	Method	Accuracy/ Trueness	Precision	Specificity	Detection/Quantit ation limit	Linearity	Range	References and notes
CAPSICI FRUCTUS	capsaicin and dihydrocapsaicin	chemical assay (component determination)	HPLC	○	repeatability/ intra-assay precision	○	not needed	○	○	
SWERTIAE HERBA	swertiamarin	chemical assay (component determination)	HPLC	○	repeatability/ intra-assay precision, reproducibility	○	not needed	○	○	
UNCARIAE UNCIS CUM RAMULUS	rhynchophylline	chemical assay (component determination)	HPLC	○	repeatability/ intra-assay precision, reproducibility	○	not needed	○	○	Yomura, K. et al, Iyakuhiin Kenkyu 35, 143-165 (2004)
ASIASARI RADIX	aristolochic acid I	purity test (no detection)	HPLC	not needed	not needed	○	○ detection limit	not needed	not needed	not needed
CORYDALIS TUBER	dehydrocorydaline nitrate	chemical assay (component determination)	HPLC	△	repeatability/ intra-assay precision	○	not needed	○	×	partially validated
PROCESSI ACONITI RADIX (POWDERED ACONITI RADIX PULVERATA)	aconitine, jesaconitine, hyaconitine and mesaconitine	purity test	HPLC	○	repeatability/ intra-assay precision	○	○ detection limit	○	○	Nakamura, Y. et al., J. Nat. Med., 60, 285-294 (2006)
ELEUTHEROCOCCI SENTICOSI RHIZOMA	eleutheroside B	identification test (detection)	HPLC	○	not needed	○	○ detection limit	not needed	not needed	Maruyama, T. et al., Planta Medica, submitted
ASTRAGALI RADIX, POLYGALAE RADIX, GLYCYRRHIZAE RADIX, CINNAMOMI CORTEX, GINSENG RADIX RUBRA, ASIASARI RADIX, CORNI FRUCTUS, SENNAE FOLIUM, PERILLAE HERBA, ZIZYPHI FRUCTUS, AURANTII NOBILIS PERICARPUM, GINSENG RADIX, ERIOBOTRYAE FOLIUM, MOUTAN CORTEX	total BHC and total DDT	purity test	GC	○	repeatability/ intra-assay precision	○	○ detection limit	○	○	Suzuki, H. et al, Iyakuhiin Kenkyu 567-581 (2006)
GINSENG RADIX RUBRA, GINSENG RADIX (GINSENG RADIX PULVERATA)	ginsenoside Rg1 and ginsenoside Rb1	chemical assay (component determination)	HPLC	○	repeatability/ intra-assay precision	○	not needed	○	○	Yamamoto, K., et al., Iyakuhiin Kenkyu 36, 211-222 (2005)
BUPLEURI RADIX	saikosaponin a and saikosaponin d	chemical assay (component determination)	HPLC	○	repeatability/ intra-assay precision	○	not needed	○	○	Suzuki, H. et al., Natural Medicine 58, 138-144 (2004)

