

## **St. John's Wort (Hypericum perforatum L.) Aerial Parts**

Art. ID	NIST-3262
Unit	5 packets x 3,3 grams
Deliverydetails	No Dangerous Good /not restricted

### Description

This Standard Reference Material (SRM) is intended primarily for use in validating analytical methods for the determination of chlorogenic acid, flavonoids, naphthodianthrones, and toxic elements in Hypericum perforatum L. and similar materials. This SRM can be used for quality assurance when assigning values to in-house control materials. This SRM has also been characterized for its DNA sequence. A unit of SRM 3262 consists of five heat-sealed aluminized pouches, each containing approximately 3.3 g of material. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value, Coverage factor k = 2	Arsenic (As)	[7440-38-2]	0.152 ± 0.014	mg/kg	ICP-MS, RN AA	
Certified value, Coverage factor k = 2,13	Cadmium (Cd)	[7440-43-9]	0.3638 ± 0.0094	mg/kg	ID ICP-MS	
Certified value, Coverage factor k = 2,36	Mercury (Hg)	[7439-97-6]	0.01479 ± 0.00043	mg/kg	ID/CV ICP/ MS	
Reference value, Coverage factor k = 2,11	Chlorogenic acid	[327-97-9]	0.1620 ± 0.0078	mg/g	LC-absorbance	
Reference value, Coverage factor k = 2,11	Rutin	[153-18-4]	5.31 ± 0.12	mg/g	LC-absorbance	
Reference value, Coverage factor k = 2,11	Hyperoside	[482-36-0]	5.28 ± 0.11	mg/g	LC-absorbance	
Reference value, Coverage factor k =	Quercitrin	[522-12-3]	1.035 ± 0.032	mg/g	LC-absorbance	
Reference value, Coverage factor k = 2	Hypericin	[548-04-9]	0.542 ± 0.019	mg/g	LC-absorbance, LC-fluorescence	
Reference value, Coverage factor k = 2	Pseudohypericin	[55954-61-5]	0.747 ± 0.021	mg/g	LC-absorbance, LC-fluorescence	
Reference , Coverage factor k = 2,23	Lead (Pb)	[7439-92-1]	0.98 ± 0.14	mg/kg	ID ICP-MS	