

## Heavy metal limits Country wise

	Country name		Arsenic	Lead	Cadmium	Chromium	Mercury	Copper	Total toxic metals as lead
1	Canada	raw herbal materials	5 ppm	10 ppm	0.3 ppm	2 ppm	0.2 ppm		
		finished herbal products	0.01 mg/day	0.02 mg/day	0.006 mg/day	0.02mg/day	0.02 mg/day		
2	China	herbal materials	2 ppm	10 ppm	1 ppm		0.5 ppm		20 ppm
3	Malaysia	finished herbal products	5 mg/kg	10 mg/kg			0.5mg/kg		
4	Singapore	finished herbal products	5 ppm	20 ppm			0.5 ppm	150 ppm	
5	Thailand	herbal material, finished herbal products	4 ppm	10 ppm	0.3 ppm				

Source: <http://apps.who.int/medicinedocs/documents/s14878e/s14878e.pdf>

### EU:

	JECFA (and EU as indicated) heavy metal limits	
	Stated Limit (PTWI - weekly)	Calculated Daily Limit
Arsenic	15 µg inorganic arsenic/kg bw	129 µg (calculated at 60 kg)
Cadmium	7 µg cadmium/kg bw	60 µg (calculated at 60 kg)
Lead	25 µg lead/kg bw	214 µg (calculated at 60 kg)
Mercury	1.6 µg methylmercury/kg bw	14 µg (calculated at 60 kg)

Source: [http://www.ahpa.org/portals/0/members/08\\_0925\\_dentali\\_usp\\_heavy\\_metals.pdf](http://www.ahpa.org/portals/0/members/08_0925_dentali_usp_heavy_metals.pdf)

### Philippines:

Heavy Metal Limits for dried plants, limits for adults	
Lead	10 mcg/g (ppm)
Cadmium	0.3 mcg/g (ppm)
Mercury	0.5 mcg/g (ppm)
Arsenic	0.3 mcg/g (ppm)

Source:

[http://www.fda.gov.ph/attachments/article/95568/CPR\\_traditionally%20used%20herbal%20products.pdf](http://www.fda.gov.ph/attachments/article/95568/CPR_traditionally%20used%20herbal%20products.pdf)

## Tanzania:

1. Raw Traditional Medicinal Products	
The content of heavy metal in the product does not exceed the acceptance limit indicate in the bracket below:-	
Lead	20 ppm
Copper	150 ppm
Mercury	0.5 ppm
Arsenic	5 ppm
"2. All modified traditional medicines must be tested and should comply with the following specifications:-"	
Lead	NMT 10.0 mg/kg or 10.0 mg/litre (10.0ppm)
Arsenic	NMT 5.0 mg/kg or 5.0 mg/litre (5.0ppm)
Mercury	NMT 0.5 mg/kg or 0.5 mg/litre (0.5ppm)
Cadmium	NMT 0.3 mg/kg or 0.3 mg/litre (0.3ppm)

Source:

[http://www.tfda.or.tz/index.php?option=com\\_phocadownload&view=category&id=22&Itemid=300](http://www.tfda.or.tz/index.php?option=com_phocadownload&view=category&id=22&Itemid=300)

## India:

Limits of Heavy metals	
Parameters	Permissible limit
Lead	10 ppm
Cadmium	0.3 ppm
Arsenic	3 ppm
Mercury	1 ppm

Source: [http://www.qcin.org/documents/Certification\\_Scheme\\_AYUSH/](http://www.qcin.org/documents/Certification_Scheme_AYUSH/)