

HOMEOPATHIC MEDICINAL PRODUCT WORKING GROUP  
(HMPWG)

**1<sup>ST</sup> LIST OF FIRST SAFE DILUTIONS (FSD)**

DISCUSSION IN THE FSD-SUBGROUP	23 - 24 February 2016
DISCUSSION IN THE HMPWG	14 – 15 April 2016
ADOPTION BY THE HMPWG for public consultation	May 2016
TRANSMISSION TO HMA for release for consultation	May 2016
DEADLINE FOR COMMENTS	27 August 2016
DISCUSSION IN THE FSD-SUBGROUP	4 October 2016
ADOPTION BY THE FSD-SUBGROUP	24 October 2016
DISCUSSION IN HMPWG and Adoption	10 - 11 November 2016

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Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Acidum arsenicosum</b> <b>As<sub>2</sub>O<sub>3</sub></b> HAB	Ph. Eur. 3.1.1.1 (HAB 5a) Ph. Eur. 4.1.2 (Ph. Franç.)	As <sub>2</sub> O <sub>3</sub> : 0.95 - 1.06 % in D2 <i>M<sub>r</sub></i> = 197.84 Relative content As in stock = 75.76 %	PDE	0.3 µg As/kg/day → 0.9 µg As/day (neonate)	ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)	10 g D2 = 106 mg As <sub>2</sub> O <sub>3</sub> = 80.31 mg As → 10 g D7 = 0.8031 µg As	<b>D7</b>	For derivation of PDE see ICH Q3D. Derivation of PDE arsenic: MRL = 0.0003 mg As/kg/d x 3 kg bw neonate → 0.9 µg As/d (no UF).
<b>Allium cepa</b> Ph. Franç.	Ph. Eur. 1.1.10 (Ph. Franç.)	N/A	Allowed daily intake	50 g	Scientific Opinion on the substantiation of health claims related to various food(s)/food constituent(s) claiming an increase in renal water elimination, “kidneys health”, “urinary health”, “bladder health”, “health of lower urinary tract”, “blood health”, “elimination”, “urinary system benefits” and/or “supports/promotes the excretory function of the kidney”, and treatment/prevention of renal gravel/kidney stones and urinary tract infections pursuant to Article 13(1) of Regulation (EC) No 1924/20061 (EFSA Journal 2010; 8(10):1742)	·/·	<b>MT</b>	

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Allium cepa</b> HAB	Ph. Eur. 1.1.3 (HAB 2a)	N/A	Allowed daily intake	50 g	Scientific Opinion on the substantiation of health claims related to various food(s)/food constituent(s) claiming an increase in renal water elimination, “kidneys health”, “urinary health”, “bladder health”, “health of lower urinary tract”, “blood health”, “elimination”, “urinary system benefits” and/or “supports/promotes the excretory function of the kidney”, and treatment/prevention of renal gravel/kidney stones and urinary tract infections pursuant to Article 13(1) of Regulation (EC) No 1924/20061 (EFSA Journal 2010; 8(10):1742)	·/·	<b>MT</b>	
<b>Arsenum iodatum</b> <b>AsI<sub>3</sub></b> HAB	Ph. Eur. 3.1.1 (HAB 5a)	AsI <sub>3</sub> : 0.95 - 1.05 % in D2 $M_r = 455.6$ Relative content As in stock = 16.44 %	PDE	0.3 µg As/kg/day → 0.9 µg As/day (neonate)	ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)	10 g D2 = 105 mg AsI <sub>3</sub> = 17.26 mg As → 10 g D7 = 0.1726 µg As	<b>D7</b>	For derivation of PDE see ICH Q3D. Derivation of PDE arsenic: MRL = 0.0003 mg As/kg/d x 3 kg bw neonate → 0.9 µg As/d (no UF).
<b>Arsenicum iodatum</b> <b>AsI<sub>3</sub></b> Ph. Franç.	Ph. Eur. 4.1.2 (Ph. Franç.)	AsI <sub>3</sub> : 97.0 - 101.0 % in stock $M_r = 455.6$ Relative content As in stock = 16.44 %	PDE	0.3 µg As/kg/day → 0.9 µg As/day (neonate)	ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)	10 g D2 = 101 mg AsI <sub>3</sub> = 16.604 mg As → 10 g D7 = 0.166 µg As	<b>D7</b>	For derivation of PDE see ICH Q3D. Derivation of PDE arsenic: MRL = 0.0003 mg As/kg/d x 3 kg bw neonate → 0.9 µg As/d (no UF).

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Atropa bella- donna</b> HAB	Ph. Eur. 1.1.3 (HAB 2a): D1 = 2 MT + 8 ethanol	Alkaloids: hyoscyamine: 0.02 - 0.05 % in MT → 10 g MT = 5 mg alkaloids	LHRD/100	0.6 µg atropine/day (neonate)	<a href="#">Merck Manual</a> (as from 22/11/2010)	10 g MT = 5 mg alkaloids → 10 g D5 = 0.1 µg alkaloids	<b>D5</b>	Dosage for children < 5 kg = 0.02 mg/kg = 0.06 mg/3 kg neonate → divided through 100 = 0.6 µg/3 kg neonate/day.
<b>Atropa belladonna</b> Ph. Eur.	Ph. Eur. 1.1.10 (Ph. Franç.)	Alkaloids: hyoscyamine: 0.02 - 0.05 % in MT → 10 g MT = 5 mg alkaloids	LHRD/100	0.6 µg atropine/day (neonate)	<a href="#">Merck Manual</a> (as from 22/11/2010)	10 g MT = 5 mg alkaloids → 10 g D4 = 0.5 µg alkaloids	<b>D4</b>	Dosage for children < 5 kg = 0.02 mg/kg = 0.06 mg/3 kg neonate → divided through 100 = 0.6 µg/3 kg neonate/day.
<b>Berberis vulgaris</b> HAB	Ph. Eur. 1.1.8 (HAB 4a): MT = D1	Berberine: 0.18 - 0.60 % in MT → 10 g MT (D1) = 60 mg berberine	PDE	0.45 mg berberine/kg/ day → 1.35 mg berberine/day (neonate)	<a href="#">Jahnke GD, Price CJ, Marr MC, Myers CB, George JD. Developmental toxicity evaluation of berberine in rats and mice. Birth Defects Res B Dev Reprod Toxicol. 2006;77(3):195-206.</a>	10 g MT (D1) = 60 mg berberine → 10 g D3 = 0.6 mg berberine	<b>D3</b>	Derivation of PDE berberine: NOAEL rat = 223 mg berberine/kg divided by UF (F1-F5 = 5 x 10 x 10 x 1 x 1) = 0.45 mg berberine/kg/day
<b>Berberis vulgaris</b> Ph. Franç.	Ph. Eur. 1.1.10 (Ph. Franç.)	Berberine: 0.10 - 0.30 % in MT → 10 g MT = 30 mg berberine	PDE	0.45 mg berberine/kg/ day → 1.35 mg berberine/day (neonate)	<a href="#">Jahnke GD, Price CJ, Marr MC, Myers CB, George JD. Developmental toxicity evaluation of berberine in rats and mice. Birth Defects Res B Dev Reprod Toxicol. 2006;77(3):195-206.</a>	10 g MT = 30 mg berberine → 10 g D2 = 0.30 mg berberine	<b>D2</b>	Derivation of PDE berberine: NOAEL rat = 223 mg berberine/kg divided by UF (F1-F5 = 5 x 10 x 10 x 1 x 1) = 0.45 mg berberine/kg/day

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Chelidonium majus</b> HAB	Ph. Eur. 1.1.5 (HAB 3a): D1 = 3 MT + 7 ethanol	MT: maximum 0.20 % of alkaloids, calculated as chelidonine → 10 g MT = 20.0 mg alkaloids	TTC	0.15 µg/day	HMPWG - Points to consider on non-clinical safety of homeopathic medicinal products of botanical, mineral and chemical origin (2007)	10 g MT = 20.0 mg alkaloids → 10 g D6 = 0.060 µg alkaloids	<b>D6</b>	Rationale for TTC-approach: <ul style="list-style-type: none"> <li>• toxicity concern</li> <li>• limited data</li> <li>• exclusions considerations not applicable</li> </ul>
<b>Chelidonium majus</b> Ph. Franç	Ph. Eur. 1.1.10 (Ph. Franç.)	MT: maximum 0.050 % of alkaloids, calculated as chelidonine → 10 g MT = 5 mg alkaloids	TTC	0.15 µg/day	HMPWG - Points to consider on non-clinical safety of homeopathic medicinal products of botanical, mineral and chemical origin (2007)	10 g MT = 5 mg alkaloids → 10 g D5 = 0.05 µg alkaloids	<b>D5</b>	Rationale for TTC-approach: <ul style="list-style-type: none"> <li>• toxicity concern</li> <li>• limited data</li> <li>• exclusions considerations not applicable</li> </ul>
<b>Cr<sup>6+</sup></b>	Stock = chemical substance	10 g stock = 10 g Cr <sup>6+</sup>	PDE	parenteral PDE: 0.5 µg Cr <sup>6+</sup> /kg/day → 1.5 µg Cr <sup>6+</sup> /day (neonate)	Guideline on specification limits for residues of metal catalysts or metal reagents (EMA/CHMP/SWP/4446/2000)	10 g D7 = 1.0 µg Cr <sup>6+</sup>	<b>D7</b>	Preparations applied as a spray shall be assessed on the basis of the inhalation PDE for hexavalent chromium (= 10 ng/day).  For derivation of PDE see EMA/CHMP/SWP/4446/2000 and RIVM Report 711701025, respectively. Due to the toxicity of hexavalent chromium and a possible high bioavailability of the active substance in the case of a sublingual application, as a conservative approach the parenteral PDE was chosen.

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Hydrargyrum biiodatum</b> <b>HgI<sub>2</sub></b> HAB See Mercurius bi-iodatus	Ph. Eur. 3.1.1 (HAB 5a)	HgI <sub>2</sub> : 0.094 - 0.110 % in D3 M <sub>r</sub> = 454.4 Relative content Hg in stock = 44.14 %	PDE	0.6 µg Hg/kg/day → 1.8 µg Hg/day (neonate)	<a href="#">ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)</a>	10 g D3 = 11 mg HgI <sub>2</sub> = 4.86 mg Hg → 10 g D7 = 0.486 µg Hg	<b>D7</b>	For derivation of PDE see ICH Q3D. Derivation of PDE mercury: BMDL <sub>10</sub> 0.06 mg Hg/kg/day divided by UF (F1-F5 = 5 x 10 x 2 x 1 x 1) → 0.0006 mg Hg/kg/d x 3 kg bw neonate → 0.0018 mg Hg/d = 1.8 µg Hg/d
<b>Kalium bichromicum</b> <b>K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub></b> HAB	Ph. Eur. 3.1.1 (HAB 5a)	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> : 0.94 - 1.07 % in D2 M <sub>r</sub> = 294.2 Relative content of Cr <sup>6+</sup> in stock = 35 %	PDE	parenteral PDE: 0.5 µg Cr <sup>6+</sup> /kg/day → 1.5 µg Cr <sup>6+</sup> /day (neonate)	<a href="#">Guideline on specification limits for residues of metal catalysts or metal reagents (EMA/CHMP/SWP/4446/2000)</a>	10 g D2 = 107 mg K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> = 37.45 mg Cr <sup>6+</sup> → 10 g D7 = 0.3745 µg Cr <sup>6+</sup>	<b>D7</b>	Preparations applied as a spray shall be assessed on the basis of the inhalation PDE for hexavalent chromium (= 10 ng/day). For derivation of PDE see EMA/CHMP/SWP/4446/2000 and RIVM Report 711701025, respectively. Due to the toxicity of hexavalent chromium and a possible high bioavailability of the active substance in the case of a sublingual application, as a conservative approach the parenteral PDE was chosen.

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Kalium stibyltartaricum</b> $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$ HAB	Monograph specific preparation (HAB): D2 = 1 part raw material + 84 parts water + 15 parts ethanol D3 = 1 part D2 + 9 parts ethanol	$C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$ : 0.95 - 1.05 % in D2 $M_r = 668$ Relative content Sb in stock = 36.4 %	PDE	24 µg Sb/kg/day → 72 µg Sb/day (neonate)	<a href="#">ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)</a>	10 g D2 = 105 mg raw material = 38.22 mg Sb → 10 g D5 = 38.22 µg Sb	D5	For derivation of PDE see ICH Q3D. Derivation of PDE antimony: NOAEL 6000 µg Sb/kg/d divided by UF (F1-F5 = 5 x 10 x 5 x 1 x 1) = 24 µg Sb/kg/d x 3 kg bw neonate = 72 µg Sb/d
<b>Mercurius bi- iodatus</b> $HgI_2$ Ph. Franç. See Hydrargyrum biiodatum	Ph. Eur. 4.1.2 (Ph. Franç.)	$HgI_2$ : minimum 99.0 % in stock Relative content Hg in stock = 44.14 %	PDE	0.6 µg Hg/kg/day → 1.8 µg Hg/day (neonate)	<a href="#">ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)</a>	10 g D3 = 10 mg $HgI_2$ = 4.414 mg Hg → 10 g D7 = 0.4414 µg Hg	D7	For derivation of PDE see ICH Q3D. Derivation of PDE mercury: $BMDL_{10}$ 0.06 mg Hg/kg/day divided by UF (F1-F5 = 5 x 10 x 2 x 1 x 1) → 0.0006 mg Hg/kg/d x 3 kg bw neonate → 0.0018 mg Hg/d = 1.8 µg Hg/d
<b>Plumbum metallicum</b> <b>Pb</b> HAB	Ph. Eur. 4.1.1 (HAB 6) Ph. Eur. 4.1.2 (Ph. Franç.) Stock = chemical substance	Pb: 9.4 - 10.6 % in D1	PDE	5 µg Pb/day (neonate)	<a href="#">ICH guideline Q3D on elemental impurities (EMA/CHMP/ICH/353369/2013)</a>	10 g D1 = 1.06 g Pb → 10 g D7 = 1.06 µg Pb	D7	For derivation of PDE see ICH Q3D. Derivation of PDE lead: Oral intake of 5 µg lead/day translates into a blood level of 1-2 µg lead/dL established from epidemiological studies for children age 0-7 years (0-82 months)

1	2	3	4	5	6	7	8	9
Stock*/raw/staring material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Sanguinaria canadensis</b> Ph. Franç.	Ph. Eur. 1.1.10 (Ph. Franç.)	Alkaloids: sanguinarine chloride: 0.10 - 0.30 % in MT → 10 g MT = 30 mg sanguinarine chloride	PDE	16 µg sanguinarine chloride/kg/day → 48 µg sanguinarine chloride(sanguinaria alkaloids)/day (neonate)	International Research and Development Corporation: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkey, Sept. 21, 1988; cited in the FDA MONOGRAPH as: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkeys, unpublished study VS-143 in OTC Vol. 210306	10 g MT = 30 mg sanguinarine chloride → 10 g D3 = 30 µg sanguinarine chloride	<b>D3</b>	Derivation of PDE sanguinarine: NOAEL 10 mg sanguinarine chloride/kg divided by UF (F1-F5 = 3 x 10 x 10 x 1 x 2 = additional modifying factor of 2 due to date of data) = 0.016 mg sanguinarine chloride/kg/d = 16 µg sanguinarine chloride/kg/day x 3 kg bw neonate = 48 µg sanguinarine chloride/d
<b>Sanguinaria canadensis</b> HAB	Ph. Eur. 1.1.8 (HAB 4a): MT = D1	Alkaloids, calculated as chelidonine: 0.20 - 0.50 % in MT → 10 g MT (= D1) = 50 mg alkaloids	PDE	16 µg sanguinarine chloride/kg/day → 48 µg sanguinarine chloride (sanguinaria alkaloids)/day (neonate)	International Research and Development Corporation: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkey, Sept. 21, 1988; cited in the FDA MONOGRAPH as: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkeys, unpublished study VS-143 in OTC Vol. 210306	10 g MT (= D1) = 50 mg alkaloids → 10 g D5 = 5 µg alkaloids	<b>D5</b>	Derivation of PDE sanguinarine: NOAEL 10 mg sanguinarine chloride/kg divided by UF (F1-F5 = 3 x 10 x 10 x 1 x 2 = additional modifying factor of 2 due to date of data) = 0.016 mg sanguinarine chloride/kg/d = 16 µg sanguinarine chloride/kg/day x 3 kg bw neonate = 48 µg sanguinarine chloride/d



1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Sanguinaria canadensis, ethanol. Decoctum HAB</b>	HAB 19f: MT = D1	Alkaloids, calculated as chelidonine: 0.20 - 0.50 % in MT → 10 g MT (= D1) = 50 mg alkaloids	PDE	16 µg sanguinarine chlo- ride/kg/day → 48 µg sanguinarine chloride (san- guinaria alkaloids)/day (neonate)	<a href="#">International Research and Development Corporation: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkey, Sept. 21, 1988; cited in the FDA MONOGRAPH as: Thirteen-Week Oral Toxicity Study in Cynomolgus Monkeys, unpublished study VS-143 in OTC Vol. 210306</a>	10 g MT (= D1) = 50 mg alkaloids → 10 g D5 = 5 µg alkaloids	<b>D5</b>	Derivation of PDE sanguinarine: NOAEL 10 mg sanguinarine chloride/kg divided by UF (F1-F5 = 3 x 10 x 10 x 1 x 2 = additional modifying factor of 2 due to date of data) = 0.016 mg sanguinarine chloride/kg/d = 16 µg sanguinarine chloride/kg/day x 3 kg bw neonate = 48 µg sanguinarine chloride/d
<b>Strychnos nux- vomica Ph. Eur.</b>	Ph. Eur. 1.1.8 (HAB 4a): MT = D1	Indole alkaloids: 0.15 - 0.30 % in MT, thereof 43 - 67 % strychnine → 10 g MT = 30 mg indole alkaloids = 20.1 mg strychnine	RfD	300 ng strychnine/kg/ day → 0.9 µg strych- nine/day (neonate)	<a href="#">US EPA Integrated Risk Information System: Strychnine. The RfD is calculated on the basis of the study from Seidl and Zbinden, 1982; Subchronic oral toxicity of strychnine in rats. Arch. Toxicol. 51(3): 267-271.</a>	10 g MT (= D1) = 30 mg alkaloids = 20.1 mg strychnine → 10 g D6 = 0.30 µg alkaloids = 0.201 µg strychnine	<b>D6</b>	Derivation of PDE strychnine: LOAEL rat 2.5 mg strychnine/kg/day divided by UF (F1-F5 = 10 x 10 x 10 x 1 x 10) = 0.00025 mg strychnine/kg/d = appr. 300 ng strychnine/kg/day rounded value of US EPA
<b>Strychnos nux- vomica Ph. Eur.</b>	Ph. Eur. 1.1.10 (Ph. Franç.)	Indole alkaloids: 0.15 - 0.30 % in MT, thereof 43 - 67 % strychnine → 10 g MT = 30 mg indole alkaloids = 20.1 mg strychnine	RfD	300 ng strych- nine/kg/day → 0.9 µg strych- nine/day (neonate)	<a href="#">US EPA Integrated Risk Information System: Strychnine. The RfD is calculated on the basis of the study from Seidl and Zbinden, 1982; Subchronic oral toxicity of strychnine in rats. Arch. Toxicol. 51(3): 267-271.</a>	10 g MT = 30 mg alkaloids = 20.1 mg strychnine → 10 g D5 = 0.30 µg alkaloids = 0.201 µg strychnine	<b>D5</b>	Derivation of PDE strychnine: LOAEL rat 2.5 mg strychnine/kg/day divided by UF (F1-F5 = 10 x 10 x 10 x 1 x 10) = 0.00025 mg strychnine/kg/d = appr. 300 ng strychnine/kg/day rounded value of US EPA

1	2	3	4	5	6	7	8	9
Stock*/raw/star ting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Veratrum album</b> HAB	Ph. Eur. 1.1.8 (HAB 4a): MT = D1	Protoveratrine: 0.15 - 0.33 % in MT → 10 g MT = 33 mg protoveratrine	PDE	0.06 µg protoveratrine /kg/day → 0.18 µg protoveratrine /day (neonate)	Krayer O, Meilmann E, 1977, Veratrum Alkaloids with Antihypertensive Activity. In: Gross F (Hrsg.) Handbook of Experimental Pharmacology, Antihypertensive Agents, Springer-Verlag, Berlin Heidelberg, Bd. 39, S. 547–570	10 g MT (= D1) = 33 mg protoveratrine → 10 ml D7 = 0.03 µg protoveratrine	<b>D7</b>	Derivation of PDE protoveratrine: LOEL <sub>hum</sub> (lowest documented effect human dose i.v.) = 1.2 µg protoveratrine/kg divided by UF (F1-F5 = 1 x 10 x 1 x 1 x 10) = 12 ng protoveratrine/kg/day = parenteral PDE  For oral intake and under consideration of 20 % resorption (as appropriately documented), the acceptable amount accounts for 60 ng protoveratrine/kg/day = 0.06 µg protoveratrine/kg/day (12 ng x 5).

1	2	3	4	5	6	7	8	9
Stock*/raw/starting material**	Method of Preparation	Toxic component concentration	Basis for FSD	Acceptable amount	Reference(s)	Calculation method	FSD	Remarks
<b>Zincum isovalerianicum</b> $\text{Zn}(\text{C}_5\text{H}_9\text{O}_2)_2 \cdot 2\text{H}_2\text{O}$ HAB	Ph. Eur. 3.1.1 (HAB 5a) Ph. Eur. 4.1.2 (Ph. Franç.)	$\text{Zn}(\text{C}_5\text{H}_9\text{O}_2)_2 \cdot 2\text{H}_2\text{O}$ : 0.93 - 1.08 % in D2 $M_r = 303,7$ Relative content zinc in stock = 21.7 % Relative content valeric acid in stock = 67,2 %	mean intakes per day adequate for the majority of infants of the first half-year of life (zinc)  valeric acid: acceptable amount derived from allowed content in food for valerian root (3.6 g/day)	2 mg zinc/day  6.12 mg valeric acid/day	Zinc: Scientific Opinion on nutrient requirements and dietary intakes of infants and young children in the European Union, EFSA Journal 2013;11(10):3408  Valeric acid: KB van 29/08/1997 betreffende de fabricage van en de handel in voedingsmiddelen die uit planten of uit plantenbereidingen samengesteld zijn of deze bevatten ( <a href="http://www.gezondheid.belgie.be/eportal/foodsafety/19077598?ie2Term=planten&amp;ie2section=9125">http://www.gezondheid.belgie.be/eportal/foodsafety/19077598?ie2Term=planten&amp;ie2section=9125</a> )	10 g D2 = 108 mg raw material = 23.44 mg Zn and 72.58 mg valeric acid → 10 g D4 = 0.23 mg Zn and 0.73 mg valeric acid	<b>D4</b>	The acceptable amount of valeric acid is calculated on the basis of information given in the document "KB van 29/08/1997". On page 66 of the document, the intake of the dried root of Valeriana officinalis or equivalents to it via food is restricted to 3.6 g/day. According to the Ph. Eur. monograph Valerianae radix and the given content of valerianic acid in the monograph (0.17 %) a most conservative acceptable amount is calculated as 6.12 mg.

\*As defined in the Ph. Eur.

\*\*For information related to the identity, refer to "Guidance on module 3 of the homeopathic medicinal product dossier"