

# Other pet ingestibles (case-by-case): HMTc Standard

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CITE AS

Pendergrass, K. (2026). Other pet ingestibles (case-by-case): HMTc Standard (Standard No. 10.83138/hmtc.std.18.pet-supplements-other). Institute of Contaminant Standards. <https://doi.org/10.83138/hmtc.std.18.pet-supplements-other>  
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KEYWORDS

heavy metals, food safety, dietary exposure

PUBLICATION HISTORY

This revision 2026-08.

CORRESPONDENCE

Corrections are logged publicly on the article page, each with its date, the affected value, and the source that resolved it.

## Abstract

The Heavy Metal Tested & Certified heavy-metal-safety standard for other pet ingestibles (case-by-case) in Pet Supplements, evaluated on the supplement as sold (as-packaged concentrate): dry weight for powders, chews, tablets and capsules, neat liquid for oils and drops; no reconstitution, dilution, or as-fed conversion is applied. 7 of 11 panel analytes publish a numeric limit taken from the strictest applicable government maximum; the remainder are held under mandatory control or a substantiated not-material determination.

## 1 | How every number on this standard is set

HMTc Method v2.0 (government-limit default), pet-supplement double over-compliance form: the exact cell's only sovereign maximum is an animal-feed instrument, which is disclosed as a floor and never used; every published value is a disclosed read-across to the strictest applicable as-sold child-protective human-food sovereign maximum in the product's native as-sold basis, or a control where no as-sold sovereign value exists. Never occurrence-derived.

## 2 | Master limit table

All values in ppb (µg/kg), as sold basis. A brand meeting every value qualifies for the mark.

| ANALYTE   | TIER   | HMTc LIMIT | BASIS                            |
|-----------|--------|------------|----------------------------------|
| Lead (Pb) | Tier 1 | 10         | human-grade read-across (Israel) |

|                             |        |       |                                                   |
|-----------------------------|--------|-------|---------------------------------------------------|
| Cadmium (Cd)                | Tier 1 | 5     | human-grade read-across (Israel)                  |
| Total arsenic (tAs)         | Tier 2 | 50    | human-grade read-across (India)                   |
| Inorganic arsenic (iAs)     | Tier 1 | 20    | human-grade read-across (European Union)          |
| Mercury, total (tHg)        | Tier 1 | 4     | human-grade read-across (Israel)                  |
| Methylmercury (MeHg)        | Tier 1 | ≤ tHg | bounded by tHg (reflex speciation)                |
| Nickel (Ni)                 | Tier 2 | 250   | human-grade read-across (European Union)          |
| Tin (Sn)                    | Tier 2 | 5,000 | human-grade read-across (India)                   |
| Aluminium (Al)              | Tier 2 | 500   | human-grade read-across (Australia / New Zealand) |
| Total chromium (Cr)         | Tier 2 | 1,000 | human-grade read-across (China)                   |
| Hexavalent chromium (Cr-VI) | Tier 2 | ≤ Cr  | bounded by Cr (reflex speciation)                 |

### 3 | Derivation – where each number comes from

Every cell traces to one named sovereign maximum level (the strictest for the nearest analog), or to an explicit control, not-material, or species-bounded determination. No occurrence statistic selects a certification value.

| ANALYTE                 | HMTC | SOVEREIGN ANALOG / DETERMINATION   |
|-------------------------|------|------------------------------------|
| Lead (Pb)               | 10   | Israel — human-food analog         |
| Cadmium (Cd)            | 5    | Israel — human-food analog         |
| Total arsenic (tAs)     | 50   | India — human-food analog          |
| Inorganic arsenic (iAs) | 20   | European Union — human-food analog |
| Mercury, total (tHg)    | 4    | Israel — human-food analog         |

|                             |       |                                                                                                                                                                                                 |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methylmercury (MeHg)        | ≤ tHg | MeHg carries no product-specific sovereign cell; it is a component of and bounded by its parent total tHg (MeHg ≤ tHg), an enforceable ceiling via reflex speciation rather than an empty cell. |
| Nickel (Ni)                 | 250   | European Union — human-food analog                                                                                                                                                              |
| Tin (Sn)                    | 5,000 | India — human-food analog                                                                                                                                                                       |
| Aluminium (Al)              | 500   | Australia / New Zealand — human-food analog                                                                                                                                                     |
| Total chromium (Cr)         | 1,000 | China — human-food analog                                                                                                                                                                       |
| Hexavalent chromium (Cr-VI) | ≤ Cr  | Cr-VI carries no product-specific sovereign cell; it is a component of and bounded by its parent total Cr (Cr-VI ≤ Cr), an enforceable ceiling via reflex speciation rather than an empty cell. |

#### 4 | Cite this standard

Pendergrass, K. (2026). *Other pet ingestibles (case-by-case): HMTc standard* (Standard No. 10.83138/hmtc.std.18.pet-supplements-other). Institute of Contaminant Standards.  
<https://doi.org/10.83138/hmtc.std.18.pet-supplements-other>

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## References

- [1] Australia / New Zealand — human-food maximum levels  
 Binds Al. Strictest applicable human-food sovereign maximum for the nearest analog.  
 MAXIMUM LEVEL
- [2] China — human-food maximum levels  
 Binds Cr. Strictest applicable human-food sovereign maximum for the nearest analog.  
 MAXIMUM LEVEL
- [3] European Union — human-food maximum levels  
 Binds iAs, Ni. Strictest applicable human-food sovereign maximum for the nearest analog.  
 MAXIMUM LEVEL
- [4] Israel — human-food maximum levels  
 Binds Pb, Cd, tHg. Strictest applicable human-food sovereign maximum for the nearest analog.  
 MAXIMUM LEVEL
- [5] India — human-food maximum levels  
 Binds tAs, Sn. Strictest applicable human-food sovereign maximum for the nearest analog.  
 MAXIMUM LEVEL

#### STATUS AND LICENCE

A normative certification standard, editorially reviewed and version-controlled in-house; every value traces to a named sovereign maximum level, disclosed in the derivation. © 2026 Institute of Contaminant Standards / Heavy Metal Certified. All rights reserved.

#### DATA AVAILABILITY

The works this reference draws on are listed in full in the references above and on the briefing page at <https://heavymetalcertified.com/standards/pet-supplements-other>. Primary legal instruments and expert-body assessments are named with their public identifiers; the underlying occurrence and toxicology corpus is maintained on the Heavy Metal Index.

#### COMPETING INTERESTS

This briefing is published by the Heavy Metal Tested & Certified (HMTc) program, operated by the Institute of Contaminant Standards. Its statements about government regulations, toxicology, and occurrence are sourced to the cited primary and expert-body records and to the independently maintained Heavy Metal Index; the program's own certification thresholds are not used as evidence for any factual claim made here.

#### PUBLICATION HISTORY

This revision 2026-08. The full dated record is maintained at <https://heavymetalcertified.com/standards/pet-supplements-other>.