



Nominated Substances for the BfR MEAL Study (Status: 2020)

Core module (elements and environmental contaminants)	Elements: aluminium, antimony, arsenic, barium, lead, cadmium, cobalt, lithium, methylmercury, nickel, nitrate, mercury, silver, thallium, vanadium, tinn
	Arsenic species: inorganic arsenic, arsenobetaine (AsB), dimethylarsinic acid (DMA), monomethylarsonic acid (MMA)
	Organotin compounds: tetrabutyltin (TeBT), tributyltin (TBT), dibutyltin (DBT), monobutyltin (MBT), triphenyltin (TPT), diphenyltin (DPT), monophenyltin (MPT)
	Dioxins/furans, dioxin-like polychlorinated biphenyls (dl-PCB), non-dioxin-like polychlorinated biphenyls (ndl-PCB)
	Polybrominated diphenyl ethers (PBDE)
Perfluoroalkyl substances (PFAS)	Perfluorooctane sulfonic acid, perfluorooctanoic acid
Mycotoxins	Aflatoxins, alternaria toxins, beauvericin, citrinin, enniatins, ergot alkaloids, fumonisins, ochratoxin A, patulin, type A trichothecenes, type B trichothecenes, zearalenone
Process contaminants	Acrylamide, glycidol, polycyclic aromatic hydrocarbons (PAH), 2- and 3-MCPD group
Food additives	Benzoates: benzoic acid, calcium benzoate, potassium benzoate, sodium benzoate
	Nitrites: potassium nitrite, sodium nitrite
	Sorbates: potassium sorbate, sorbic acid
	Sulphites: calcium hydrogen sulphite, calcium sulphite, potassium hydrogen sulphite, potassium metabisulphite, sodium hydrogen sulphite, sodium metasulphite, sodium sulphite, sulphur dioxide
Nutrients	Vitamins: vitamin A (retinol), vitamin E (tocopherols and tocotrienols), vitamin K1, vitamin K2, β -carotene, folic acid
	Bulk elements: calcium, chloride, potassium, magnesium, sodium, phosphorus
	Trace elements: chromium, copper, fluoride, iodine, mangan, molybdenum, selenium, zinc
Pesticide residues	Boscalid, captan/tetrahydrophthalimide, chlorate, chlorpyrifos, cyantraniliprole, cypermethrin, cyprodinil, deltamethrin, difenoconazole, dimethoate, fluopyram, glyphosate/aminomethyl-phosphonic acid (AMPA), hexachlorobenzen, hexythiazox, imazalil, indoxacarb, iprodion, lambda-cyhalothrin, myclobutanyl, omethoat, perchlorate, pirimicarb, pirimicarb-desmethyl, pyraclostrobin, pyrimethanil, spinosad, thiabendazole, thiacloprid, triflumuron
Pharmacologically active substances	Aminoglycosides: dihydrostreptomycin, gentamycin, neomycin, spectinomycin, streptomycin
	Amphenicoles: florfenicol
	Chinolones: ciprofloxacin, danofloxacin, enrofloxacin, marbofloxacin
	Diaminopyrimidine derivatives: trimethoprim
	Coccidiostats: dinitrocarbanilides, lasalocid, maduramycin, monensin, narasin
	Macrolides: erythromycin, gamithromycin, tildipirosin, tilmicosin, tulathromycin, tylosin
	Penicillins: amoxicillin, benzylpenicillin
	Sulfonamides: sulfadiazine, sulfadimethoxine, sulfadimidine, sulfadoxine, sulfathiazol
	Tetracyclines: chlortetracycline, doxycycline, epi-chlortetracycline, epi-tetracycline, epi-oxytetracycline, oxytetracycline, tetracycline
Substances migrating from food contact materials	Mineral oil saturated hydrocarbons (MOSH), mineral oil aromatic hydrocarbons (MOAH)
	Plasticisers
	2,4-di-tert-butylphenol