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PEOPLE'S REPUBLIC OF CHINA**

GB 13078-2017

Hygienical standard for feeds

饲料卫生标准

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Foreword

All the technical contents in this Standard are mandatory. This Standard was drafted as per the rules specified in GB/T 1.1-2009. This Standard replaces Amendment 1 of GB 13078-2001 Hygienical Standard for Feeds; GB 13078.1-2006 Hygienical Standard for Feed - Limited Content of Nitrite in Feeds; GB 13078.2-2006 Hygienical Standard for Feed - Toleration of Ochratoxin A and Zearalenone in Feeds; GB 13078.3-2007 Tolerance Limits for Deoxynivalenol in Formula Feed; GB 21693-2008 Tolerance Limits for T-

2 Toxin in Formula Feed. Compared with the original standards, this Standard has the major technical differences as follows besides the editorial modifications.

--- Adjust the scope of the standard, modify which into "this Standard is applicable to the feed ingredients and feed products listed in Table 1; inapplicable to pet feed products and feed additive products", delete the content of feed additive products.

--- Add the limited contents of 3 items, namely, fumonisin, polychlorinated biphenyls and hexachlorobenzene.

--- Specify the limit value of the significant figures.

--- Expand the coverage of each items' limit values and uniformly list in the order of feed ingredients, additive premixes, concentrated feeds, concentrate supplements, formula feeds; further detail the limit levels of each item into the different feed ingredients and feed products (different ages and animal categories), thereof. Total arsenic. modify the limit of the total arsenic; delete the exceptional regulation of organic arsenic preparation of the original standard; increase the limit content in the following substances such as "hay and its processed products", "palm kernel cake (meal)", "algae and its processed products", "shell animals and their by-products (excluding the shrimp oil), fish and shrimp power, aquatic Mollusca and their by-products (excluding oil-fat)", "other aquatic animal-derived feed ingredients (excluding the oil-fat of aquatic animal)"; combine the "fishmeal" into "other aquatic animal-derived feed ingredients (excluding the oil-fat of aquatic animal)"; increase the limit content in "other mineral feed ingredients", "oil-fat", "other feed ingredients"; combine the "zeolite powder, bentonite, medical stone" into "other mineral feed

ingredients"; expand the "additive premix for pig and poultry" into "additive premix"; expand the "concentrated feed for pig and poultry" and "concentrate supplement for cow and sheep" into "concentrated feed" and "concentrate supplement"; delete the instructions on proportional conversion of the original standard; increase the limit content in "aquatic formula feed" and "formula feed for fox, racoon and marten"; expand "formula feed for pig and poultry" into "other formula feed". Lead. the limit content in the feed ingredients are listed as "single cell protein feed ingredient", "mineral feed ingredients", "forage, roughage and their processed products" and "other feed ingredients", respectively; no more list "bone meal, meat meal, fishmeal, stone powder" independently; expand "compound premixes for laying hens, broiler chickens, piglets, growing-finishing pigs" into "additive premixes"; expand "concentrated feed for laying hens, broiler chickens, piglets, growing-finishing pigs" into "concentrated feed"; expand "concentrate supplement for dairy cattle and beef cattle" into "concentrate supplement"; expand "formula feeds for growing ducks, laying hens, meat ducks, chickens, pigs" into "formula feed". Mercury. expand "fishmeal" into "fish, other aquatic organisms and their by-product feed ingredients"; increase the limit content in "other feed ingredients"; no more list limit content in "stone powder" independently; increase the limit content in "aquatic formula feed"; expand the "formula feeds for chickens and pigs" into "formula feed". Cadmium. expand "rice bran" into "plant feed ingredients"; increase the limit content in the "algae and its processed products" and "aquatic Mollusca and their by-products"; expand "fishmeal" into "other animal-derived feed ingredients"; increase the limit content in the "other mineral feed ingredients"; increase the limit content in "additive premixes", "concentrated feed", "concentrate supplement for calf and lamb", "other concentrate supplements"; increase the limit content in "formula feed for shrimp, crab, sea cucumber and shell fish", "aquatic formula feed (excluding shrimp, crab, sea cucumber, shell fish formula feed)"; expand "formula feeds for chickens and pigs" into "other formula feeds". Chromium. delete the limit content in "leather protein powder"; increase the limit content in "feed ingredient", "additive premix for pigs", "other additive premixes", "concentrated feed for pigs", "other concentrated feeds"; expand "formula feed for pigs and chickens" into "formula feed", the limit value is reduced to 5mg/kg. Fluorine. the limit content in feed ingredients are listed separately as per "shell animals and their by-products", "other animal-derived feed ingredients", "lennilite", "other mineral feed ingredients" and "other feed ingredients"; no more list "fishmeal", "stone powder", "bone powder, meat meal"; expand "additive premixes for pig and poultry" into "additive premix"; the limit value is reduced to 800mg/kg; expand "concentrated feed for pig and poultry" into "concentrated feed"; the limit value is uniformly regulated to be 500mg/kg; delete the instructions on proportional conversion of the original standard; expand "concentrate supplement for cow (dairy cattle and meat cattle)" into "concentrate supplement for cow and sheep"; express "formula feed for broiler chicken, growing chicken" as "formula feed for broiler chicken, brooding chicken, breeding chicken"; the limit content is unchanged; combine "formula feed for growing duck, meat duck" and "laying-duck formula feed" into "duck formula feed"; the limit content is unified to 200mg/kg; increase the limit content in "aquatic formula feed" and "other formula

feeds". Nitrite. increase the limit content in "pre-food and by-products obtained in the production process of the meat products such as ham powder", "other feed ingredients"; combine "corn", "cake meal, wheat bran, rice bran", "grass powder", "bone powder, meat meal" into "other feed ingredients"; the limit value is unified to 15mg/kg; expand separately "concentrated feed for chickens, ducks, pigs", "concentrate supplement for cow (dairy cattle, meat cattle)" and "duck formula feed" into "concentrated feed", "concentrate supplement" and "formula feed". Aflatoxin B1. the limit content in the feed ingredients is separately listed as per "corn processed products, peanut cake (meal)", "plant oil-fat (excluding the corn oil and peanut oil)", "corn oil, peanut oil" and "other plant feed ingredient"; combine "corn", "cotton seed cake (meal), rapeseed cake (meal)", "bean meal" into "other plant feed ingredients"; specify the limit content in "concentrated feed for piglet and young poultry", "concentrated feed for late meat ducks, growing ducks, laying ducks" and "other concentrated feeds"; increase the limit content in "concentrated supplement for calf and lamb", "lactation concentrate supplement" and "other concentrate supplement"; specify the limit content in "formula feed for piglet and young poultry", "formula feed for late meat ducks, growing ducks, laying ducks"; increase the limit content in "other formula feed". Ochratoxin A. expand "corn" into "cereals and their processed products". Zearalenone. increase the limit content in "corn and its processed products (excluding corn husk, sprayed corn husk, corn syrup dry powder)", "corn husk, sprayed corn husk, corn syrup dry powder, corn distiller's grains products" and "other plant feed ingredients"; increase the limit content in "concentrate supplement for calf, lamb and lactation"; list the "formula feed" in the original standard as per "piglet formula feed", "young sow formula feed", "other pig formula feeds" and "other formula feeds", respectively. Deoxynivalenol. increase the limit content in "plant feed ingredient", "concentrate supplement for calf, lamb and lactation" and "other concentrate supplements"; combine "poultry formula feed" into "other formula feeds". T-2 toxin. increase the limit content in "plant feed ingredient"; express "pig formula feed" and "poultry formula feed" into "formula feed for pig and poultry"; the limit value is reduced to 0.5mg/kg. Cyanide. increase the limit content in "flax seed [sesame seed]" and "other feed ingredient"; change "sesame cake, meal" into "flax seed [sesame seed] cake, flax seed [sesame seed] meal"; expand "cassava" into "cassava and its processed products"; separately list "chick formula feed"; the limit content is reduced to 10mg/kg; expand "formula feed for chicken and pig" into "other formula feeds". Free gossypol. separately specify the limit content in "cottonseed oil", "cottonseed", "peeled cottonseed protein, fermented cottonseed protein", "other cottonseed processed products" and "other feed ingredients"; no more separately specify the limit content in "cottonseed cake and meal"; increase the limit content in "calf concentrated supplement", "concentrated supplements for other cows", "lamb concentrate supplement" and "concentrate supplement for other sheep"; expand "growing-finishing pig formula feed" into "formula feed for pigs (excluding piglets) and rabbits"; expand "formula feeds for meat chicken and growing chicken" into "formula feed for poultry (excluding the laying poultry)"; combine "laying-hen formula feed" and "piglet formula feed" into "formula feeds for other animals and poultries"; increase the limit content

in "formula feeds for plant-feeding and omnivorous-aquatic animals" and "other aquatic formula feeds". Isothiocyanate. expand "rapeseed cake and meal" into "rapeseed and its processed products"; increase the limit content in "other feed ingredients"; increase the limit content in "concentrate supplement for calf and lamb" and "other concentrate supplements for calf and lamb"; expand "formula feeds for chicken and growing-pig" into "formula feed for pig (excluding piglet) and poultry"; increase the limit content in "aquatic formula feed" and "other formula feeds". Oxazolidinone. increase the limit content in "rapeseed and its processed products"; expand "laying-hen formula feed" into "laying-poultry formula feed"; expand "formula feeds for broiler chicken and growing chicken" into "formula feeds for other poultries"; increase the limit content in "aquatic formula feed". Hexachlorocyclohexane (HCH). confirm that the limit value shall be calculated by the sum of alpha-HCH, beta-HCH and gamma-HCH; expand "rice bran, wheat bran, soybean cake and meal, fishmeal" into "cereals and their processed products (excluding oil-fat), oilseeds and its processed products (excluding oil-fat), fishmeal"; increase the limit content in "oil-fat"; combine the "formula feeds for broiler chicken, growing-chicken and laying-hen" and "growing-fishing pig formula feed" of the original standard into "additive premix, concentrated feed, concentrate supplement, formula feed"; the limit value is reduced to 0.2mg/kg.

Dichloro-diphenyl-trichloroethane (DDT). confirm the limit value shall be calculated by the sum of (p, p'-DDE), (o, p'-DDT), (p, p'-DDD) and (p, p'-DDT); expand "rice bran, wheat bran, soybean cake and meal, fishmeal" into "cereals and their processed products (excluding oil-fat), oilseeds and its processed products (excluding oil-fat), fishmeal"; increase the limit content in "oil-fat"; combine the "formula feeds for chicken and pig" of the original standard into "additive premix, concentrated feed, concentrate supplement, formula feed"; the limit value is reduced to 0.05mg/kg. Total mold. expand "corn", "wheat bran and rice bran" into "cereals and their processed products"; expand "bean cake (meal), cottonseed cake (meal), rapeseed cake (meal)" into "cake-meal feed ingredients (excluding the fermented products)"; the limit content is reduced to 4×10^3 CFU/g; increase the limit content in "dairy products and their processed by-products"; the limit content in "fishmeal" is reduced to 1×10^4 CFU/g; increase the limit content in "other animal-derived feed ingredients" and combine "meat meal" into it; delete the limit content of formula feed, concentrated feed and concentrate supplement of the original standard. Total bacteria. expand "fishmeal" into "animal-derived feed ingredients". Salmonella. expand "feed" into "feed ingredient and feed products".

--- Add and modify the test methods of partial items. test methods for HCH and DDT in oil-fat shall adopt GB/T 5009.19; test methods for hexachlorobenzene shall adopt SN/T 0127; test methods for PCB shall adopt GB 5009.190; test methods for fumonisin shall adopt NY/T 1970; test methods for aflatoxin B1 shall be modified as per NY/T 2071; test methods for deoxynivalenol shall be modified as per GB/T 30956; test methods for Ochratoxin A shall be modified as per GB/T 30957; and test methods for zearalenone and T-2 toxin shall be modified as per NY/T 2071. This Standard was proposed by and under