

NASC SCIENTIFIC ADVISORY INGREDIENT RISK ASSESSMENT

Cats, Dogs and Horses with Specific Contraindications Noted

Ingredient Utilized	Category: Vitamin / Mineral = VM Fatty Acid = FA Amino Acid = AA Herbal Ingredient = HI Functional Ingredient = FI Intermediate/Metabolite = IM Enzymes / Probiotic = EP	Ingredient Risk Assessment A Ingredients in this category are approved, recognized for intended use or GRAS status when used according to published information	Ingredient Risk Assessment B Ingredients in this category are expected to pose minimal risk	Ingredient Risk Assessment C Ingredients in this category are expected to pose low to moderate risk	Ingredient Risk Assessment D Ingredients in this category have significant risks	F	Notes / Contraindications / Cautions / Side Effects / References
<p>(F) ingredients, highlighted in RED, were removed from the list in 2004. They are listed on a separate worksheet within this document. Companies wishing to use these ingredients will need to provide further information to the NASC Scientific Advisory Committee as described in the corporate charter.</p>		<p>(X1,2,3) = Sub Category Classifications: Cannot be supported as (A); no known risk. Ingredients with sub classifications must contain appropriate statements on product labels as described in the Charter for the NASC Scientific Advisory Committee. X1 = Safety during pregnancy is a concern X2 = Safety during nursing has not been proven X3 = Other Warnings, Precautions, Concerns X4 = Potential Drug Interactions</p>					
1	Acetyl-L-Carnitine	IM		B			Published monograph
2	Adenosine Triphosphate (ATP)	IM		B			
3	Adrenal Cortex	FI		B			
4	Alanine	AA		B			
5	Alfalfa Leaf Extract (Medicago Satvia)	HI	A				21 CFR 582.20
6	Alfalfa Meal	HI	A				AAFCO 3. Alfalfa Products, PDR Herbal Meds
7	Alfalfa Sprouts	HI	A				
8	Alisma Orientalis (Juzepczuk, alisma, ze xie)	HI		B3			Rizome, prolonged use may cause GI irritation (AHPA)
9	Aloe Juice (cape aloe, aloe ferox, aloe perryi)	HI	A				Mucilaginous leaf gel from parenchymatous leaf cells, (AHPA) stimulant laxative
10	Aloe Vera Gel (concentrate)	HI	A				AAFCO 87.5 Special Purpose Product, Flavoring agent, not to exceed 1250ppm (0.0125%) in finished product
11	Alpha-Carotene	FI	A				
12	Alpha-Linolenic Acid (ALA)	FA	A				
13	Alpha Lipoic Acid	VM		B (Dogs & Horses)	D (Cats)		cats above 13mg/kg bw (Hill,2003) In cats ingredient is
14	Alpha-Tocopheryl Acetate (Vitamin E)	VM	A				
15	American Ginseng (ren shen)	HI	A				root, (AHPA)
16	Amylase Enzymes	EP	A				
17	Anemone Pulsatilla- pasque flower (Pulsatilla, Crowfoot, kubjelle, meadow anemone)	HI			D		Handbook Herbs & Natural Supplements (Mosby); potentially toxic-multi organ; not to be used in a supplement

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18	Angelica Pubescentis (Angelica pubescens, du huo) - root	HI	A					21 CFR 582.20, PDR Herbal Meds, AHPA - avoid prolonged exposure to (sunlight) root
19	Angelica Sinensis (Dong-Quai, Tang Kuei) - root	HI		B				AHPA
20	Animal Fat	FI	A					
21	Anterior Pituitary Gland Meal	FI		B				
22	Aqueous Geletin	FI	A					
23	Arabinogalactans	FI		B				
24	Arginine	AA		B				Published monograph
25	Arnica Montana (Arnica latifolia) - whole plant, flower, and rhizome	HI			C			AHPA - external use only, not on open wounds/broken skin
26	Ascorbate (Magnesium)	VM		B				
27	Ascorbate (Manganese)	VM		B				
28	Ascorbate (mineral)	VM		B				
29	Ascorbic Acid	VM	A					
30	Asparagus officinalis (Tian Men Dong) - rhizome	HI		B3				AHPA contraindicated in inflammatory kidney disorders
31	Aspartate (mineral)	VM	A					
32	Aspartic Acid	AA		B				
33	Aspen Bark	HI	A	B3, B4 (DOGS)	C3 (RACETRACK HORSES), C4 (CATS)			AAFCO approved - do not use with platelet or bleeding disorders; drug interactions with salicylate and NSAIDs; use with caution in racetrack horses that are bleeders
34	Aspergillus oryzae	EP	A					
35	Aspirin	OTC		B3 (DOGS)	C (HORSES)	D (CATS)		Potentially toxic in felines (veterinarian dispensed only) (D); use with caution in racetrack horses that are prone to bleed (C); potential gastric irritation with prolonged use for dogs (B)
36	Astragalus Membranaceous	HI		B				Published monograph, AHPA
37	Bacillus subtilis	EP		B				
38	Bai He (Lily Bulb), (Lilium brownii, Brown's lily) - bulb	HI		B3 (DOGS, HORSES)	C3 (CATS)			AHPA; may cause diarrhea; other species of this plant has been reported to cause renal failure
39	Bai Ji Li (Tribulus)	HI		B1, B2, B3				Gastric upset *
40	Barberry (Berberis vulgaris L, European barberry) - root, root bark	HI			C3			AHPA; potential toxicity if used alone long-term

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41	Barley Grass (<i>Hordeum vulgare</i> L.)	HI, FI	A					
42	Barley Grass Sprouts (<i>Hordeum vulgare</i> L., mai ya - germinated) - sprouted seed	FI, HI	A					AHPA
43	Barley Meal	FI, HI	A					
44	Bayberry (<i>Myrica cerifera</i> L, wax myrtle) - bark, root	HI	A					AHPA, Canadian regulations note (pg 77)
45	Bayberry Bark	HI		B1				
46	Bee Pollen	FI		B				
47	Beef Liver Powder	FI		B				
48	Beef Peptone (hydrolyzed beef protein)	FI		B				
49	Beeswax	FI	A					
50	Beet Pulp	FI, HI	A					
51	Beta Carotene (Vitamin A)	VM, FI	A					Published monograph
52	Beta Hydroxy Beta Methylbutyrate (HMB)	VM		B				
53	Beta Sitosterol	FI		B				
54	Beta-1,3-Glucans	FI		B				
55	Beta-1,6-Glucans	FI		B				
56	Beta-Glucans (mixed)	FI		B				
57	Betaine Hydrochloride	IM	A					
58	Bifido Bifidis	EP		B				
59	Bifidobacterium bifidum	EP	A					
60	Bifidobacterium longum	EP	A					
61	Bifidobacterium thermophilum	EP	A					
62	Bilberry (<i>vaccinium myrtillus</i> L.) - fruit	HI		B				Published monograph
63	Bilberry (<i>vaccinium myrtillus</i> L., whortleberry, huckleberry) - leaf	HI		B				
64	Bilberry Berry Extract	HI		B				
65	Bioflavonoids	FI		B				
66	Biota (bai zi ren, <i>Platycladus orientalis</i> , oriental arborvitae, ce bai ye) - seed	HI		B				AHPA
67	Bitter Melon (<i>Momordica Charantia</i> , balsam apple, balsam pear, bitter cucumber, bitter pear, carilla cundeamor, karolla)	HI		B3				Handbook of Herbs & Natural Supplements (Mosby); Use with caution when used in conjunction with insulin or antidiabetic drugs

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68	Black Cohosh (<i>Cimicifuga racemosa</i> , black snakeroot) - rhizome	HI		B1, B2, B3				Use with caution in patients with a history of hepatitis, and avoid using concurrently with hepatotoxic drugs. Not recommended for long term use.
69	Black Currant Oil	HI		B				
70	Black Currant (<i>Ribes nigrum</i> , cassis) - fruit	HI	A					AHPA
71	Black Pepper (<i>Piper nigrum</i> , pepper, black peppercorns) Extract, fruit	HI	A					AHPA/ AAFCO 582.20 (Essential oils, oleoresins and natural extractives)
72	Black Walnut Hull (<i>Juglans nigra</i> L) - hull	HI			C1, C3 (DOGS, CATS)	D (HORSES)		AHPA known mutagen in animals (jugulone); potentially toxic and may cause laminitis; should be avoided in supplements for horses
73	Black Walnut Leaf (<i>Juglans nigra</i> L) - leaf	HI			C1, C3 (DOGS, CATS)	D (HORSES)		AHPA known mutagen in animals (pg 65) (jugulone); potentially toxic and may cause laminitis; should be avoided in supplements for horses
74	Blessed Thistle (<i>Cnicus benedictus</i> L, Holy thistle) - herb	HI		B1				
75	Blue Vervain (<i>Verbena hastata</i> L) - herb	HI		B1, B2				AHPA
76	Blueberry (<i>Vaccinium angustifolium</i> , <i>V. corymbosum</i> , <i>V. pallidum</i>) - leaf	HI, FI		B				AHPA
77	Bone Meal	FI	A					
78	Borage (<i>Borago officinalis</i> L) - leaf	HI			C1,C2,C3,			AHPA Not for long term use. May contain Pyrrolizidine Alkaloids
79	Borage Oil (<i>Borago officinalis</i> L)	HI		B				AHPA
80	Borage Seed (<i>Borago officinalis</i> L)	HI		B				AHPA
81	Boswellia spp.	HI		B1				AHPA, Published monograph, PDR Herbal meds, Bensky/Gamble (pregnancy reference)
82	Bovine Teste Tissues	FI		B				
83	Bovine Tracheal Cartilage	FI		B				
84	Brewer's Yeast	FI	A					
85	Bromelain	EP	A					Published monograph, Pineapple enzyme (<i>Ananas comosus</i>)

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86 Buchu (Barosm betulina, B crenulata, B serratifolia) - leaf	HI		B1, B3				AHPA (contraindicated in kidney inflammation), GRAS ingredient for flavoring. 8/12/07 May be contraindicated w/ pregnancy. Suggest changing to "B1,B3". AHPA reference needs to be checked (sited: AHPA labeling subcommittee).
87 Burdock (Arctium lappa) - seed & root	HI		B				AHPA
88 Burdock Root	HI		B				AHPA
89 Butcher's Broom (Ruscus aculeatus, box holly) - root	HI		B				AHPA, Published monograph
90 Calcium	VM	A					Published monograph
91 Calcium Acetate	VM	A					
92 Calcium Ascorbate	VM	A					
93 Calcium Carbonate	VM	A					21 CFR 582.5191
94 Calcium Citrate	VM	A					
95 Calcium Lactate	VM	A					
96 Calcium Pantothenate	VM	A					
97 Calcium Phosphate	VM	A					
98 Calcium Pyruvate	VM		B				
99 Calcium Silicate	VM	A					
100 Calendula (Calendula officinalis, pot marigold) - flower	HI		B				AHPA

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