

**FDA/Center for Veterinary Medicine**  
**Survey #1, qualitative analyses for pentobarbital residue**  
**Dry dog food samples purchased in Laurel, MD, area, March - June 1998**

**KEY**                    Yes = confirmed for presence of pentobarbital  
                              No = failed to confirm for presence of pentobarbital  
                              No result = analyses failed quality assurance requirements

**Rendered ingredients:**    AD = animal digest  
                                      AF = animal fat  
                                      BBM = beef and bone meal  
                                      BT = beef tallow  
                                      MBM = meat and bone meal

**NOTES**                    3-4 ppb = Estimated limit for confirming pentobarbital with highest confidence  
                                      ppb = parts-per-billion pentobarbital, by weight (nanograms per gram)

n = not given or not legible

Rendered ingredients (position in ingredient list)	Confirmed for the presence of pentobarbital?	Brand Name	Formulation Name	Lot Number
Beef Meal(1)	yes	Nutro	Premium	10:19 2AR7JJ
Beef Meal(1)	yes	Nutro	Premium	00:512BA725625910 1069704
MBM(2) AF(6) AD(7)	yes	Oi'Roy	Krunchy Bites & Bones	V033
MBM(2) AF(5) AD(8)	yes	Oi'Roy	Premium Formula with Chicken Protein and Rice	V093
MBM(2) AF(5) AD(8)	yes	Oi'Roy	Premium Formula with Chicken Protein and Rice	V071
MBM(2) AF(6) AD(9)	yes	Oi'Roy	High Performance with Chicken Protein and Rice	V073
MBM(2) AF(6) AD(9)	no result	Oi'Roy	High Performance with Chicken Protein and Rice	V073
MBM(2) AF(6) AD(7)	yes	Oi'Roy	Krunchy Bites & Bones	V153
MBM(2) AF(5)	yes	Trailblazer	Chunk Premium Quality	029813:30\A/2
MBM(2) AF(5)	yes	Trailblazer	Chunk Premium Quality	A5981315\A/R (?)
MBM(2) AF(5)	yes	Trailblazer	Bite Size Ration	A5889911\A/A/1
MBM(2) AF(5)	yes	Trailblazer	Bite Size Ration	030800113\A/2
MBM(2) AF(4)	no	Pedigree	Mealtime	814EL0011E
MBM(2) AF(4)	no	Pedigree	Mealtime	816GL154D
MBM(2) AF(6)	no	Pedigree	Meaty Chunks with Rice and Vegetables	811FL0027E
MBM(2) AF(6)	no	Pedigree	Meaty Chunks with Rice and Vegetables	811FL2211E
MBM(2) AF(3)	yes	Dad's	Bite Size Meal	17:42
MBM(2) AF(3)	yes	Dad's	Bite Size Meal	7:12
MBM(2) AF(6)	yes	Weis Value	Chunky and Moist	Feb 0599x
MBM(2) AF(6)	yes	Weis Value	Puppy Food	99N132
BBM(2) AF(5)	no	Friskies	Come'n Get It	8104LP-61156
BBM(2) AF(6)	no	Friskies	Alpo	8015LP 60501
BBM(2) AF(6)	no	Friskies	Alpo	8096LP-60531
MBM(3) AF(5) AD(6)	yes	Super G	Chunk Style	V113
MBM(3) AD(5) AF(6)	no	Oi'Roy	Lean Formula	V013
MBM(3) AD(5) AF(6)	no	Oi'Roy	Lean Formula	V073
MBM(3) AF(5)	no result	Richfood	High Protein Dog Meal	1R04018
MBM(3) AF(5)	no	Richfood	High Protein Dog Meal	1R03308
MBM(3) AF(5) AD(6)	yes	Richfood	Chunk Style	1R0478
MBM(3) AF(5) AD(6)	yes	Richfood	Chunk Style	3R05088
MBM(3) AF(5)	no	Richfood	Gravy Style Dog Food	3R010598
MBM(3) AF(5)	yes	Richfood	Gravy Style Dog Food	3R06078
MBM(3) AF(5) Beef Dgst(7)	no	Super G	Gravy Style Dog Food	V013

Rendered ingredients (position in ingredient list)	Confirmed for the presence of pentobarbital?	Brand Name	Formulation Name	Lot Number
MBM(3) AF(5) Beef Dgst(7)	no	Super G	Gravy Style Dog Food	V093
MBM(3) AF(5) AD(6)	yes	Super G	Chunk Style	V003
MBM(3) AF(5) AD(6)	yes	Super G	Chunk Style	V113
MBM(3) AF(4)	yes	Pet Essentials	Chunk Style	0-0046-L9
MBM(3) AF(4)	yes	Pet Essentials	Chunk Style	D-1106-L9
MBM(3) AF(5)	yes	America's Choice	Krunchy Kibble	3R
MBM(3) AF(5)	yes	America's Choice	Krunchy Kibble	R
MBM(3) AF(5) AD(6)	yes	Weis Value	Crunchy Dog Food	99N052
MBM(3) AF(5) Beef Dgst(7)	yes	Weis Value	Gravy Style Dog Food	N092
MBM(3) AF(7) AD(8)	yes	Weis Value	High Protein Dog Food	N072
BBM(3) AD(4) AF(5)	yes	Oi'Roy	Meaty Chunks and Gravy	K5 0825
BBM(3) AD(4) AF(5)	no	Oi'Roy	Meaty Chunks and Gravy	V90051
BBM(3) AF(4) AD(5)	yes	Ken-L Ration	Gravy Train Beef, Liver and Bacon Flavor	W20351
BBM(3) AF(4) AD(5)	yes	Ken-L Ration	Gravy Train Beef, Liver and Bacon Flavor	W31203
BBM(3) AF(6)	no	Purina	Mainstay	U2326-L8
BBM(3) AF(6)	no	Purina	Mainstay	U1529-L6
BBM(3) BT(4)	no result	Purina	Dog Chow	E1837-L2
BBM(3) AF(6)	no	Friskies	Come'n Get It	8082L9-62159
BBM(3) AF(4)	yes	Ken-L Ration	Gravy Train	W12123
BBM(3) AF(4)	yes	Ken-L Ration	Gravy Train	W11525
BBM(3) BT(4)	no	Purina	Little Bites	U0502L4
BBM(3) BT(4)	no	Purina	Little Bites	U1201-L4
BBM(3) AF(5) AD(9)	no	Heinz	Kibbles 'n Bits Jerky	L70600
BBM(3) AF(5) AD(9)	yes	Heinz	Kibbles 'n Bits Jerky	L2 228
BBM(3) AF(5) AD(9)	no	Heinz	Kibbles 'n Bits 'n Bits 'n Bits	L200:38
BBM(3) AF(5) AD(9)	no	Heinz	Kibbles 'n Bits 'n Bits 'n Bits	L7 0448
MBM(4) AF(6)	yes	Weis Value	Kibbles Variety Mix	Mar 0999z
MBM(4)	yes	Kibble Select	Premium Dog Food	11P
MBM(4)	yes	Kibble Select	Premium Dog Food	1238
BBM(4) BT(6)	no	Fieldmaster	Fieldmaster	C1334-L3
BBM(4) AF(6)	no	Fieldmaster	Fieldmaster	U2108-L5
BBM(4) BT(6)	no	Purina	High Pro	U1829L6
BBM(4) BT(6)	no	Purina	High Pro	U1749-L6
BBM(4) AF(6)	no	Purina	Grrravy	U1643-L7
BBM(4) AF(6)	no	Purina	Grrravy	U1059-L6

<b>Rendered ingredients (position in ingredient list)</b>	<b>Confirmed for the presence of pentobarbital?</b>	<b>Brand Name</b>	<b>Formulation Name</b>	<b>Lot Number</b>
BBM(4) AF(6) AD(7)	yes	Heinz	Kibbles 'n Bits Puppy	L1-0343
BBM(4) BT(7) Dried AD(10)	no	Purina	Dog Chow Senior	U2055L3
BBM(4) BT(7) Dried AD(10)	no	Purina	Dog Chow Senior	U0303L4
BT(4) BBM(10)	no	Purina	Kibbles and Cheezy Chews	N-0113-L10-E
BT(4) BBM(10)	no	Purina	Kibbles and Cheezy Chews	N-19-58-L11-W
MBM(5) AF(7)	yes	Champ Chunx	Bite Size Dog Food	H20054
BBM(5) AF(6)	no	Purina	Kibbles and Chunks	N-20-37-L10-E
BBM(5) AF(6)	no	Purina	Kibbles and Chunks	I-21-10-L10-E
BBM(5) BT(6)	no	Purina	Butcher's Blend	N1224-L20
BBM(5) BT(6)	no	Purina	Butcher's Blend	N-1723-L20
BBM(5) AD(8)	no	Heinz	Kibbles 'n Bits Lean	L30906
BBM(5) AD(8)	yes	Heinz	Kibbles 'n Bits Lean	L2 1156
BT(5)	no	Purina	Dog Chow	U1239-L2
BT(5)	no	ProPlan	Beef and Rice Adult	U2053-L2
BT(5)	yes	ProPlan	Beef and Rice Adult	U0131 L2
BBM(6) BT(7)	no	Purina	Fit & Trim	U0557L3
BBM(6) BT(7)	no	Purina	Fit & Trim	U2133-L4
BT(6)	yes	ProPlan	Beef and Rice Puppy	E0601-L3
BT(6)	yes	ProPlan	Beef and Rice Puppy	E0359 L2
MBM(7) AF(9)	no	Oi'Roy	Dinner Rounds Soft Dry Dog Food	8D30PB1
MBM(7) AF(8)	yes	Reward	Dinner Rounds Dog Food	8C19PA1
MBM(7) AF(8)	no	Reward	Dinner Rounds Dog Food	8D23PB1

**Survey #2, quantitative analyses for pentobarbital residue  
Dry dog food samples purchased in Laurel, MD, area, December 2000**

**KEY**

QUANTITATIVE ANALYSES

ppb = parts-per-billion pentobarbital, by weight (nanograms per gram)  
--- = not found above 1 ppb limit of detection  
a = found in 1-2 ppb range, but not accurately measurable

QUALITATIVE ANALYSES

yes = confirmed for presence of pentobarbital  
no = failed to confirm for presence of pentobarbital  
blank = not analyzed by qualitative method

Rendered ingredients:      AD = animal digest  
                                    AF = animal fat  
                                    BBM = beef and bone meal  
                                    BT = beef tallow  
                                    MBM = meat and bone meal

**NOTES**

1 ppb = Lowest concentration for detecting pentobarbital with some confidence  
2 ppb = Lowest concentration for measuring pentobarbital accurately  
3-4 ppb = Estimated limit for confirming pentobarbital with highest confidence  
n = not given or not legible

Rendered ingredients (position in ingredient list)	Measured (ppb)	Confirmed for presence of pentobarbital?	Brand Name	Formulation Name	Lot Number
MBM(2) AF(5) BBM(6) AD(8)	10.0	yes	Old Roy	Puppy Formula, Beef Flavor	0407003
MBM(2) AF(5) AD(8)	---		Old Roy	Premium Chicken and Rice	0409002
MBM(2) AF(5) AD(8)	32.0	yes	Old Roy	Puppy Formula, Chicken and Rice	0415002
MBM(2) AF(5) AD(8)	a	no	Richfood	Dog Food Chunk Style	50 09:50 1
MBM(2) AF(6) AD(9)	a		Old Roy	High Performance Chicken and Rice	0417002
MBM(2) AF(5)	---		Pedigree	Meaty Chunks Mealtime	046DT0117C
MBM(2) AF(5) AD(7)	a		Safeway	High Protein	0650 EA
MBM(2) AF(6) AD(9)	3.9	yes	Richfood	High Protein Dog Meal	50 22:34 1
MBM(2) AF(6)	---		Pedigree	MealTime Large Crunchy Bites	935CK0906E
MBM(2) AF(8) AD(9)	a	no	Safeway	Puppy food	EB2206
MBM(2) AF(6) AD(9)	15.0	yes	Weis	Total High Energy Chicken and Rice	?17 09:23 2
BBM(2) AF(5) MBM(7)	---		Friskies	Come and Get it--Beef, Chicken, Liver	0269LP70610
BBM(2) BT(6) AD(8)	---		American Fare	Bites and Bones	C1800 L1
MBM(3) AD(5) AF(6)	3.9	yes	Old Roy	Lean Formula	0409003
MBM(3) AD(4) AF(5)	---		Old Roy	Meaty Chunks and Gravy	V80333
MBM(3) AF(5) AD(7)	---		Safeway	Tasty Nuggets	EB 22:00
MBM(3) AF(5) Beef Digest(7)	4.5	yes	Super G	Gravy Style Dog Food	n
MBM(3) AF(5) AD(6)	16.4	yes	Super G	Chunk Style Dog Food	0415003
BBM(3) AF(4) AD(5)	---		Heinz	KenL Ration Gravy Train Beef Liver and Bacon	W3 0819
BBM(3) AF(5) AD(9)	a		Heinz	Kibbles N Bits Original, Chicken and Beef	L72111
BBM(3) AF(6) AD(8)	25.1	yes	Heinz	Kibbles and Bits Beefy Bits	L22027
BBM(3) BT(4)	---		Purina	Dog Chow Little Bites	C 0202 L2
AF(3)	---		Hills	Science Diet Senior, 7+, small bites	K02350044
AF(3)	8.4	yes	Dad's	Bite Size Meal Chicken and Rice	n
BT(3)	11.6	yes	PetGold	Master Diet Puppy Formulation	11:17 EA
MBM(4) AF(6)	---		Safeway	Small Bites	00:14 EC
MBM(4) AF(6)	---		Weis	Total Pet Kibbles	n
MBM(4)	---		Dad's	Kibble Select	n
BBM(4) AF(6) AD(7)	2.8	no	Heinz	Kibbles and Bits Puppy	L70222
BBM(4) BT(6)	---		Fieldmaster	Adult	C2258L4
BBM(4) BT(5)	---		Purina	Puppy chow, Beef Flavor	C0559 L1
BBM(4) BT(6)	---		Purina	Kibbles and Chunks Beef Flavor	C234 L1
AF(4)	---		Neura	Special Diet Formulation 300	SM017311:37

Rendered ingredients (position in ingredient list)	Measured (ppb)	Confirmed for presence of pentobarbital?	Brand Name	Formulation Name	Lot Number
AF(4)	---		Nature's Recipe	Easy to Digest	NT B 18:41
AF(4)	---		Friskies	Alpo Lamb Meal Rice and Barley	0237UA20635
AF(4)	---		Pedigree	Mealtime with Lamb and Rice	045C50933C
AF(4)	---		Hills	Science Diet Large Breed Adult	K07360152
AF(4) MBM(5) AD(6)	---		Heinz	KenL Ration Choice Blend	W4 1947
BT(4)	---		PetGold	Master Diet Adult Formulation	EA 09:25
MBM(5) AF(6)	---		American Fare	High Protein	C0935 L6
BBM(5) BT(7) AD(8)	---		Purina	Dog Chow Senior 7+	C 2159 L2
BBM(5) BT(6) AD(8)	---		American Fare	Adult Formulation	n
BBM(5) BT(7) AD(8)	---		Purina	One Beef and Rice	C 0405 L2
BBM(5) BT(6)	---		Purina	Butchers Blend	N 0751 L20
AF(5)	---		Hills	Science Diet Large Breed Canine, Puppies	142K51737
AF(5)	---		Safeway	Lamb Meal and Rice	EB1556
AF(5)	a		Neura	Special Diet Formulation 200	SM002714:27
BT(5) AD(9)	---		ProPlan	Beef and Rice, Adult Formulation	V0621L2
BT(5) BBM(6)	---		Safeway	Kibbles and Munchy Chews	F061414
BT(5) BBM(6)	---		American Fare	Kibbles and Munchy Morsels	C1931 L2
MBM(6) AF (7)	---		Heinz	Reward Dinner Rounds	P1 1238
AF(6) BBM(8)	---		Friskies	Alpo Complete Puppy	0007UA22125
AF(6)	---		Nature's Recipe	Lifestages Senior Lamb and Rice	V80449
AF(6)	---		Hills	Science Diet Sensitive Stomach	K12251603
AF(6)	---		Hills	Science Diet Sensitive Skin	K15350650
AF(6)	---		Pedigree	Puppy	0420S1702C
BT(6) AD(8)	---		American Fare	Puppy Formulation	D 0756 L8
BT(7)	---		Safeway	Select Adult Dog Formulation (Nutra Balance)	E2200L3
BT(7)	---		Maxximum Nutrition	Lamb and Rice Formula	n
Meat Meal(7)	---		Flavorite	Kibbles Dog Food	3104269

February 28, 2001

Edited for Typographical Errors -- March 1, 2002