Tobacco Product: Brand X Roll Your Own Tobacco

Tobacco Amount Per Gram	Smoke Amount Per Cigarette	CHEMICAL	CA	LD	HB	RP	AD
170 - 370 mg	✦	Ammonia		■			
40 - 120 ng	✦	Arsenic	■		■	■	
41 - 62ng	✦	Cadmium	■	■		■	
0.1 – 1.6 µg	✦	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)	■				
11.3 – 26.7 mg	✦	Nicotine				■	■
0.9 – 6.9 µg	✦	N-Nitrosonornicotine (NNN)	■				

The information is not currently available on the following chemicals.

Tobacco Amount Per Gram	Smoke Amount Per Cigarette	CHEMICAL	CA	LD	HB	RP	AD
	✦	Acetaldehyde	■	■			■
	✦	Acetamide	■				
✦	✦	Acetone		■			
✦	✦	Acrolein		■	■		
	✦	Acrylamide	■				
	✦	Acrylonitrile	■	■			
✦		Aflatoxin B1	■				
	✦	4-Aminobiphenyl	■				
	✦	1-Aminonaphthalene	■				
	✦	2-Aminonaphthalene	■				
✦	✦	Anabasine					■
✦	✦	o-Anisidine	■				
	✦	A-α-C (2-Amino-9H-pyrido[2,3-b]indole)	■				
✦	✦	Benz[a]anthracene	■		■		
	✦	Benz[j]aceanthrylene	■				
✦	✦	Benzene	■		■	■	
✦	✦	Benzo[b]fluoranthene	■		■		
	✦	Benzo[k]fluoranthene	■		■		
	✦	Benzo[b]furan	■				
✦	✦	Benzo[a]pyrene	■				
	✦	Benzo[c]phenanthrene	■				
✦	✦	Beryllium	■				
	✦	1,3-Butadiene	■	■		■	
✦	✦	Caffeic acid	■				
	✦	Carbon monoxide				■	
✦	✦	Catechol	■				
	✦	Chlorinated dioxins/furans	■			■	
✦	✦	Chromium	■	■		■	
✦	✦	Chrysene	■		■		
✦	✦	Cobalt	■		■	■	
✦		Coumarin (banned in food)					
✦	✦	Cresols (o-, m-, and p-cresol)	■	■			
✦	✦	Crotonaldehyde	■				
	✦	Cyclopenta[c,d]pyrene	■				
	✦	Dibenz[a,h]anthracene	■				
	✦	Dibenzo[a,e]pyrene	■				
	✦	Dibenzo[a,h]pyrene	■				
	✦	Dibenzo[a,i]pyrene	■				
	✦	Dibenzo[a,l]pyrene	■				
✦	✦	2,6-Dimethylaniline	■				
✦	✦	Ethyl carbamate (urethane)	■			■	
✦	✦	Ethylbenzene	■				
	✦	Ethylene oxide	■	■		■	
✦	✦	Formaldehyde	■	■			
	✦	Furan	■				
	✦	Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d] imidazole)	■				

A machine is used to test for these chemicals. The amount of chemical that gets into the body may be higher or lower depending on how a person uses the tobacco product. Companies may use different tests to measure these chemicals. Results may vary.

KEY

Chemicals have been linked to:

- **CA** Cancer
- **LD** Lung Disease
- **HB** Heart and Blood Vessel Problems
- **RP** Reproductive Problems
- **AD** Addiction

- **ND** Not Detected
- ✦ The information is not currently available

mg= milligram
µg = microgram
ng = nanogram
pg= picogram

Tobacco Product: Brand X Roll Your Own Tobacco

Tobacco Amount Per Gram	Smoke Amount Per Cigarette	CHEMICAL	CA	LD	HB	RP	AD
	✦	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	■				
✦	✦	Hydrazine	■	■			
✦	✦	Hydrogen cyanide		■	■		
	✦	Indeno[1,2,3-cd]pyrene	■				
	✦	IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	■				
	✦	Isoprene	■				
✦	✦	Lead	■		■	■	
	✦	MeA-α-C (2-Amino-3-methyl)-9H-pyrido[2,3-b]indole)	■				
✦	✦	Mercury	■			■	
	✦	Methyl ethyl ketone		■			
✦	✦	5-Methylchrysene	■				
✦	✦	Naphthalene	■	■			
✦	✦	Nickel	■	■			
	✦	Nitrobenzene	■	■		■	
	✦	Nitromethane	■				
	✦	2-Nitropropane	■				
✦	✦	N-Nitrosodiethanolamine (NDELA)	■				
✦	✦	N-Nitrosodiethylamine (NDEA)	■				
✦	✦	N-Nitrosodimethylamine (NDMA)	■				
✦	✦	N-Nitrosomethylethylamine	■				
✦		N-Nitrosomorpholine (NMOR)	■				
✦	✦	N-Nitrosopiperidine (NPIP)	■				
✦	✦	N-Nitrosopyrrolidine (NPYR)	■				
✦		N-Nitrososarcosine (NSAR)	■				
✦		Nornicotine					■
✦	✦	Phenol		■	■		
	✦	PhIP (2-Amino-1-methyl-6-phenylimidazo [4,5-b] pyridine)	■				
✦	✦	Polonium-210	■				
✦	✦	Propionaldehyde		■	■		
✦	✦	Propylene oxide	■	■			
✦	✦	Quinoline	■				
✦	✦	Selenium		■			
✦	✦	Styrene	■				
✦	✦	2-Toluidine	■				
✦	✦	Toluene		■		■	
	✦	Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)	■				
	✦	Trp-P-2 (1-Methyl-3-amino-5H-pyrido[4,3-b]indole)	■				
✦		Uranium-235	■	■			
✦		Uranium-238	■	■			
	✦	Vinyl acetate	■	■			
✦	✦	Vinyl chloride	■				

A machine is used to test for these chemicals. The amount of chemical that gets into the body may be higher or lower depending on how a person uses the tobacco product. Companies may use different tests to measure these chemicals. Results may vary.

KEY

Chemicals have been linked to:

- **CA** Cancer
- **LD** Lung Disease
- **HB** Heart and Blood Vessel Problems
- **RP** Reproductive Problems
- **AD** Addiction

- **ND** Not Detected
- ✦ The information is not currently available

---

mg= milligram
µg = microgram
ng = nanogram
pg= picogram