

SMOKELESS TOBACCO RESEARCH PRODUCTS



Produced by
Tobacco and Health
Research Institute

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INTRODUCTION

A series of reference smokeless tobacco products for research purposes are now available from the University of Kentucky Tobacco and Health Research Institute. Three smokeless tobacco reference products, including moist snuff, dry snuff and loose leaf chewing tobacco, have been developed and manufactured. The Smokeless Tobacco Research Council has designated the Tobacco and Health Research Institute to store and distribute the products.

The composition of each reference product, which is included in this publication, is representative of the tobacco composition of the products in that category on the market. Other flavorings are not included in these research products.

The Tobacco and Health Research Institute will distribute these products to researchers at their requests. The reference products are stored at the Tobacco and Health Research Institute under both cold and freezer storage conditions. It is expected that all of the initial orders will be supplied from the cold storage supply.

There will be a charge for these products as indicated on the order form.

COMPOSITION OF 1S1 LOOSE-LEAF CHEWING TOBACCO

The loose-leaf chewing tobacco is packaged in a 3 oz. foil pouch. The finished product composition was supplied by the manufacturer.

	<u>Percent</u>
Glycerin	3.75
Sucrose	23.01
Dextrose	1.70
Maltose	1.30
Other Corn Syrup Solids	6.21
Salt*	1.60
Sodium Propionate	0.28
Wisconsin Air Cured	17.40
Penn. Air Cured	15.47
Crushed Burley Stems	5.80
Moisture	<u>23.48</u>
	100.00

*Added Salt, does not include salts in tobacco.
Tobacco is on dry weight basis.

COMPOSITION OF 1S2 DRY SNUFF

The dry snuff is packaged in a metal can which contains 4.6 oz. of the smokeless tobacco product. The finished product composition was supplied by the manufacturer.

	<u>Percent</u>
Dark Fired Tobacco	22.75
Fire Cured Virginia Tobacco	19.66
Air Cured Stem	33.03
Flue Cured Stem	15.20
Salt*	0.36
Moisture	<u>9.00</u>
	100.00

*Added Salt, does not include salts in tobacco.

COMPOSITION OF 1S3 MOIST SNUFF

The moist snuff is packaged in a plastic can, which contains 1.2 oz. of the smokeless tobacco product. The finished product composition was supplied by the manufacturer.

	<u>Percent</u>
Dark Fired Tobacco	25.73
Air Cured Tobacco	7.83
Burley Stems	3.73
Sodium Carbonate	0.51
Sodium Chloride	7.40
Moisture	<u>54.80</u>
	100.00

REFERENCE SMOKELESS TOBACCO CHEMICAL ANALYSIS: COLLABORATIVE STUDY: SUMMARY

COMPONENT %		1S1 LOOSE-LEAF	1S2 DRY SNUFF	1S3 MOIST SNUFF
NICOTINE	AVG	.76	1.49	1.25
	SE	.05	.09	.08
TOTAL NITROGEN	AVG	1.20	2.59	1.33
	SE	.13	.29	.19
NITRATE NITROGEN	AVG	.20	.74	.28
	SE	.01	.10	.04
TOTAL SUGARS	AVG	26.50	.67	.20
	SE	1.42	.13	
REDUCING SUGARS	AVG	4.18	.52	.04
	SE	.65	.08	
MOISTURE	AVG	23.20	8.79	55.00
	SE	.61	.27	.29
PH	AVG	6.42	6.37	8.01
	SE	.13	.03	.15
ASH	AVG	11.00	22.10	17.30
	SE	.12	.06	.51
POTASSIUM	AVG	2.09	5.91	1.78
	SE	.01	.16	.15
SODIUM	AVG	.78	.28	2.80
	SE	.05	.02	.02
CALCIUM	AVG	1.37	2.93	1.44
	SE	.07	.11	.07

ALL ANALYSES ARE WET BASIS RESULTS.

STORAGE RECOMMENDATIONS

The Reference Smokeless tobacco products are stored at 3.3°C and -18°C. Those shipped to researchers are from the 3.3°C storage and 50-60% relative humidity. One day prior to shipping to purchasers, the product is removed from cold storage and placed in a humidity-controlled room (23.8°C and 60% relative humidity) for equilibration.

Investigators who receive smokeless tobacco products from the Institute are encouraged to place them in a plastic bag, seal the bag so that it is airtight and store in a standard laboratory refrigerator until used for research. The products should be exposed in the containers for about 30 minutes to room temperature before use.

ORDERING PROCEDURES AND PRICE LIST

Send request for Reference Smokeless Tobacco Products to:

Mr. Arthur Vaught
Tobacco and Health Research Institute
Cooper and Alumni Drives
University of Kentucky
Lexington, Kentucky 40546
606-257-1657

All purchasers will be required to sign a disclaimer (as shown on order form) upon request.

1S1 Loose-leaf Chewing Tobacco . \$0.50 per 3 oz. pkg.
1S2 Dry Snuff \$1.00 per 4.6 oz. pkg.
1S3 Moist Snuff \$0.50 per 1.2 oz. pkg.

There will be a minimum shipping charge of \$5.00 if shipped within the continental United States. For Alaska, Hawaii and foreign countries, the shipping charges are based on actual cost plus a \$2.00 handling charge. All charges are prepaid and added to the invoice unless otherwise specified.

SMOKELESS TOBACCO RESEARCH PRODUCTS

ORDER FORM

Product	Number of Packages	*Total Cost
1S1 Loose-leaf Chewing Tobacco (3 oz.)	_____	_____
1S2 Dry Snuff (4.6 oz.)	_____	_____
1S3 Moist Snuff (1.2 oz.)	_____	_____

*1S1 \$0.50 per pkg.
 1S2 \$1.00 per pkg.
 1S3 \$0.50 per pkg.

Shipping Address:

Disclaimer:

It is herein agreed and understood by Purchaser, that the tobacco products detailed on this order are altered for size, and intended for use solely FOR RESEARCH PURPOSES. Furthermore, the Purchaser assumes total responsibility for shipping charges, taxes, assessments, as well as total liability for use and distribution of these tobacco products beyond the Sender's F.O.B. point of shipment.

AUTHORIZED SIGNATURE OF PURCHASER

 Title: _____ Date: _____