

GOSSYPOL ASSAYS OF PIMA COTTONSEED (1999 Crop Year)

Gin Code	Sample Code	Meats % as is	DM % as is	- AOCs Gossypol -		----- HPLC Gossypol -----		
				Total % DM	Free % total	Total % DM	(+) isomer ----- % total -----	(-) isomer
CH 252								
96702	1	61.8	92.6	1.08	97.5	1.01	46.9	53.1
96603	2	61.3	93.7	1.10	94.1	1.03	47.1	52.9
Mean		61.6	93.2	1.09	95.8	1.02	47.0	53.0
Conquistador								
86650	1	63.8	92.5	1.44	100.5	1.30	48.1	51.9
Mean		63.8	92.5	1.44	100.5	1.30	48.1	51.9
HTO								
96704	1	65.9	93.2	1.21	100.0	1.07	49.4	50.6
96702	2	66.0	93.2	1.22	100.6	1.08	49.7	50.3
96702	3	64.8	93.0	1.21	103.4	1.11	47.7	52.3
96710	1	65.6	92.9	1.13	98.8	1.02	49.9	50.1
96711	2	63.8	93.6	1.10	98.1	0.97	48.5	51.5
96713	2	62.6	93.7	1.07	95.6	0.96	49.3	50.7
Mean		64.8	93.3	1.16	99.4	1.04	49.1	50.9
Phytogen 57								
96706	3	63.0	92.7	1.22	100.6	1.16	47.8	52.2
96711	3	64.1	93.5	1.07	95.5	1.01	46.5	53.5
96603	1	62.4	93.5	1.01	96.1	0.94	48.1	51.9
96713	1	60.1	93.3	1.05	96.3	0.97	46.7	53.4
96706	1	62.0	92.3	1.06	98.7	1.08	45.8	54.2
96706	2	64.6	92.4	1.17	100.0	1.13	46.3	53.7
96704	3	63.1	92.1	1.15	105.4	1.08	47.7	52.3
Mean		62.8	92.8	1.10	98.9	1.05	47.0	53.0
S 6								
86650	2	65.4	92.8	1.07	100.6	0.92	47.3	52.7
86682	3	62.8	93.9	1.07	96.3	0.94	46.5	53.5
86650	3	63.9	93.2	0.99	104.2	0.88	47.5	52.5
86682	1	61.5	93.6	1.20	99.5	1.06	48.3	51.7
86682	2	62.0	94.1	1.27	94.8	1.12	47.9	52.1
Mean		63.1	93.5	1.12	99.1	0.98	47.5	52.5

Gin Code	Sample Code	Meats % as is	DM % as is	- AOCS Gossypol -		----- HPLC Gossypol -----		
				Total % DM	Free % total	Total % DM	(+) isomer ----- % total -----	(-) isomer
S 7								
96704	2	64.2	92.5	1.02	103.4	0.91	46.4	53.6
96710	2	63.7	93.1	1.27	102.2	1.12	46.5	53.5
86690	1	62.0	93.4	0.91	97.8	0.84	44.6	55.4
86690	2	65.6	94.1	0.85	95.9	0.77	46.7	53.3
96603	3	63.0	93.9	1.10	98.2	0.96	46.8	53.2
86690	3	62.6	94.0	0.82	95.9	0.75	47.3	52.7
96713	3	64.1	93.7	1.24	101.1	1.10	44.9	55.1
96711	1	63.8	94.3	1.16	98.8	0.97	45.7	54.3
Mean		63.6	93.6	1.05	99.2	0.93	46.1	53.9
Overall	Mean	63.4	93.3	1.11	99.0	1.01	47.3	52.7
	Min	60.1	92.1	0.82	94.1	0.75	44.6	50.1
	Max	66.0	94.3	1.44	105.4	1.30	49.9	55.4

Assay Codes

Gin Code	-	Refers to the gin of origin
Sample Code	-	Refers to the sample number within gin
Meats	-	Non hull
DM	-	Dry matter
AOCS	-	American Oil Chemists Society procedures
HPLC	-	High Pressure Liquid Chromatographic procedure
(+) isomer	-	HPLC '+' isomer
(-) isomer	-	HPLC '-' isomer