



DATE 20.07.2009

DETERMINATION OF AMYLOSE/AMYLOPECTIN

Sample	Weight (mgs)	Total Starch Aliquot		Con A Supernatant Aliquot		Amylose Content. %
		Absorbance values (510nm)	Average Absorbance (510nm)	Absorbance values (510nm)	Average Absorbance (510nm)	
1. High amylose maize starch, 64% of amylose, lot 50904	21.4	0.591 / 0.588 / 0.590	0.590	0.565 / 0.567 / 0.567	0.566	64.1
2. High amylose maize starch, 64% of amylose, lot 50904	21.0	0.578 / 0.580 / 0.579	0.579	0.563 / 0.558 / 0.561	0.561	64.7
3. High amylose maize starch, 64% of amylose, lot 50904	22.0	0.609 / 0.610 / 0.609	0.609	0.577 / 0.585 / 0.583	0.582	63.8
4. High amylose maize starch, 64% of amylose, lot 50904	23.2	0.638 / 0.635 / 0.633	0.635	0.604 / 0.604 / 0.603	0.604	63.5

Glucose/100µg = 0.676 / 0.678 / 0.673 / 0.678; Average = 0.676 ; F = 147.9 (not used in calcs.)

$$\text{Amylose Content, \%} = \frac{\text{Abs. Con A Supernatant}}{\text{Abs. of Total starch Aliquot}} \times \frac{6.15}{9.2} \times \frac{100}{1} = \frac{\text{Abs. Con A Supernatant}}{\text{Abs. of Total starch Aliquot}} \times 66.8$$