

Megazyme

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TOTAL STARCH CONTROLS KIT

K-TSCK 01/20



Total Starch Controls:

1 vial, approximately 5 grams of each of the following.

Sample	Moisture	Total Starch % 'as is' basis		
		Method A	Method B	Method D
Wheat Starch	10.8	86.5	85.4	86.2
High Amylose Maize Starch	13.0	77.3	82.5	82.8
Chicken Feed	9.0	36.6	35.7	37.3
Soybean Meal	9.2	2.7	2.6	2.5
Corn Silage	5.9	33.1	33.4	33.7
Wheat Flour	12.2	68.9	68.5	69.3

* all values are the mean of duplicate analysis over 4 days

K-TSTA Method A: RTS Method — Sample is incubated in Na Acetate buffer (pH 5) with thermostable α -amylase at 100°C for 15 minutes. Followed by an incubation with amyloglucosidase at 50°C for 30 minutes.

K-TSTA Method B: RTS-NaOH Method — Sample is stirred in ice cold 1.7M NaOH for 15 mins and then neutralised with buffer. Thermostable α -amylase and amyloglucosidase added and incubated at 50°C for 30 minutes.

K-TSTA Method D: DMSO Method — Sample is suspended in DMSO and incubated at 100°C for 5 minutes. Thermostable α -amylase added in buffer and incubated at 100°C for 6 minutes. Neutralised with buffer and amyloglucosidase added and incubated at 50°C for 30 minutes.



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