

**Gracefruit Limited**  
**209 Glasgow Road**  
**Longcroft**  
**Bonnybridge**  
**FK4 1QQ**

## Certificate Of Analysis

Product: Xanthan Gum Food Grade  
 Brand name: Ziboxan®F200  
 Batch No.: H20170711  
 Quantity: 13000kg  
 Mauf.date: Jul.11.2017  
 Expiry date: Jan.10.2022

	Specification	Results
Viscosity 1% solution in 1% KCL	1200–1600cps	1430cps
PH 1% solution	6.0–8.0	6.43
Moisture	max 13%	9.19%
Ash	max 13%	6.33%
Particle size	100% through 80 mesh (180micron) min 92% through 200mesh (75micron)	100% 93%
V1/V2	1.02 –1.45	1.05
Pyruvic acid	min 1.5%	3.5
Heavy metal	max 20ppm	conform
Lead	max 2ppm	conform
Arsenic	max 3ppm	conform
Nitrogen	max.1.5%	<1.5%
Microbiological		
Total plate count	not more than 2000 cfu/g	850
Yeast/mould	not more than 100 cfu/g	conform
E.coli	absent /5g	conform
Salmonella	absent /10g	conform
Xanthomonas campestris	no viable cells in 1g	conform
Ethanol and propan-2-ol	Max.500ppm	169ppm