

CERTIFICATE OF ANALYSIS

Report Number: ACS2438325 SAMPLE

Date:

Liquidia

Client:

Client Address:

Client Contact:

Product Name / Batch Number:

Purchase Order Number:

Date of Sample Receipt:

Parameter	Unit	Test Method	Results	Specifications of ISO22241-2:2019			
				Limits		Acceptance Range ¹	
				Min	Max	Min	Max
Urea	% w/w	ISO 22241-2 Annex C	32.3	31.8	33.2	30.8	34.2
Density @ 20°C	g/cm ³	ISO 3675	1.0905	1.087	1.0930	1.0864	1.0935
RI @ 20°C	-	ISO 22241-2 Annex C	1.3829	1.3814	1.3843	1.3804	1.3853
Alkalinity as NH ₃	% w/w	ISO 22241-2 Annex D	< 0.2	-	0.2	-	0.24
Biuret	% w/w	ISO 22241-2 Annex E	0.28	-	0.3	-	0.34
Aldehyde	mg/kg	ISO 22241-2 Annex F	< 5	-	5	-	7.4
Insolubles	mg/kg	ISO 22241-2 Annex G	< 20	-	20	-	27.6
Phosphate (PO ₄)	mg/kg	ISO 22241-2 Annex H	< 0.5	-	0.5	-	0.53
Calcium	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.5	-	0.55
Iron	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.5	-	0.65
Copper	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.2	-	0.24
Zinc	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.2	-	0.26
Chromium	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.2	-	0.26
Nickel	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.2	-	0.26
Aluminium	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.5	-	0.65
Magnesium	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.5	-	0.65
Sodium	mg/kg	ISO 22241-2 Annex I	0.3	-	0.5	-	0.75
Potassium	mg/kg	ISO 22241-2 Annex I	< 0.1	-	0.5	-	0.75
Identity	-	ISO 22241-2 Annex J	Identical to Ref	Identical to Ref		Identical to Ref	

¹Acceptance Range – limit adjusted for reproducibility as per Annex B

Analyst:	Signature: 
Title: Analyst	Date: SAMPLE