

**Campden BRI group:**

Campden BRI (registered no. 510618)  
 Campden BRI (Chipping Campden) Limited (registered no. 3836922)  
 Campden BRI (Nutfield) (registered no. 2690377)

**Registered office:**

Station Road • Chipping Campden • Gloucestershire • GL55 6LD • UK

**Confidential to:**

Shizumi Clark  
 Amano Enzymes Europe Ltd  
 Roundway House  
 Cromwell Park  
 Chipping Norton  
 OX7 5SR

**Report No:** AC/REP/134115/63

**Report Date:** 16/10/2014

**CERTIFICATE OF ANALYSIS**  
**Department of Chemistry & Biochemistry**

**Reporting Limits**

Coliforms	10.0 cfu/g	Aflatoxin B1	0.2µg/kg
Fat (Weibull-Stoldt)	0.1g/100g	Aflatoxin B2	0.2µg/kg
Lead (ICP-MS)	0.01mg/kg	Aflatoxin G1	0.2µg/kg
Protein (Kjeldahl)	0.1g/100g	Aflatoxin G2	0.2µg/kg
Total carbohydrate	0.1g/100g	Total Aflatoxin	0.8µg/kg
Moisture	0.1g/100g	HT-2 Toxin	10µg/kg
Ash	0.05g/100g	T-2 Toxin	10µg/kg
		Zearalenone	10µg/kg
		Ochratoxin A	0.5µg/kg
		Sterigmatocystin	10µg/kg
		Fumonisin (FB1 FB2)	5µg/kg

**Report issued by:**

Campden BRI (Chipping Campden) Limited

**Prepared/Checked By:** [REDACTED]

**Authorised By:** [REDACTED]

**Authorised** [REDACTED]

Chromatography Section Manager

**Signatories:** [REDACTED]

Liquid Chromatography Group Manager

Flavour and Taint Group Manager

Pesticides Group Manager

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**Report No:** AC/REP/134115/63



**Campden BRI (Chipping Campden) Limited – part of the Campden BRI group**  
**A UKAS accredited testing laboratory No. 1079**

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[www.campdenbri.co.uk](http://www.campdenbri.co.uk)

<b>Sample Code:</b>	AC/134115/00063	<b>Date of Receipt:</b>	09/09/2014
<b>Description:</b>	Protease (Orizin) concentrate	<b>Condition on Receipt:</b>	Satisfactory for Analysis
<b>Client Code:</b>	Lot no. PZH-N67-006	<b>Testing Performed:</b>	10/09/2014 onwards
<b>Test</b>	<b>Campden BRI Test Reference</b>	<b>Result</b>	
<b>Nutrition</b>			
Protein (Kjeldahl)	TES-AC-087 UKAS	57.5 g/100g	
Total Carbohydrate (by difference)	TES-AC-335 UKAS	27.1 g/100g	
Fat (Weibull-Stoldt)	TES-AC-536 UKAS	0.4 g/100g	
Moisture (Oven 102°C)	TES-AC-097 UKAS	5.6 g/100g	
Ash (@ 525°C)	TES-AC-086 UKAS	9.43 g/100g	
Protein N Factor	Protein N Factor	6.25	
<b>Elements</b>			
Lead (ICP-MS)	TES-AC-686 UKAS	0.03 mg/kg	
<b>Microbiology</b>			
Coliforms 37°C (presumptive) - Enumeration of	Subcontracted - UKAS	<10 cfu/g	
Escherichia coli (Beta-glucuronidase +ve) - Enumeration of	Subcontracted - UKAS	Not detected/10 g	
Salmonella spp. Cultural Method - Detection of	Subcontracted - UKAS	Not detected /25g	
<b>Mycotoxins</b>			
Aflatoxin B1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin B2	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G2	TES-AC-175 UKAS	<0.2µg/kg	
Total Aflatoxin	TES-AC-175 UKAS	<0.8 µg/kg	
Ochratoxin A	TES-AC-332 UKAS	<0.5 µg/kg	
HT-2 Toxin (HT-2)	TES-AC-687 UKAS	<10.0 µg/kg	
T-2 Toxin (T2)	TES-AC-687 UKAS	<10.0 µg/kg	
Zearalenone (ZON)	TES-AC-687 UKAS	<10.0 µg/kg	
Sterigmatocystin	Determination by LC/MS/MS - NON-UKAS	<10.0 µg/kg	
Fumonisin FB1	AM/041	<5.0 µg/kg	
Fumonisin FB2	AM/041	<5.0 µg/kg	
Antimicrobial activity	Subcontracted - NON-UKAS	Negative	

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 Campden BRI (Nutfield) (registered no. 2690377)

**Registered office:**

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**Confidential to:**

██████████  
 Amano Enzymes Europe Ltd  
 Roundway House  
 Cromwell Park  
 Chipping Norton  
 OX7 5SR

**Report No:** AC/REP/134115/64

**Report Date:** 16/10/2014

**CERTIFICATE OF ANALYSIS**  
**Department of Chemistry & Biochemistry**

**Reporting Limits**

Coliforms	10.0 cfu/g	Aflatoxin B1	0.2µg/kg
Fat (Weibull-Stoldt)	0.1g/100g	Aflatoxin B2	0.2µg/kg
Lead (ICP-MS)	0.01mg/kg	Aflatoxin G1	0.2µg/kg
Protein (Kjeldahl)	0.1g/100g	Aflatoxin G2	0.2µg/kg
Total carbohydrate	0.1g/100g	Total Aflatoxin	0.8µg/kg
Moisture	0.1g/100g	HT-2 Toxin	10µg/kg
Ash	0.05g/100g	T-2 Toxin	10µg/kg
		Zearalenone	10µg/kg
		Ochratoxin A	0.5µg/kg
		Sterigmatocystin	10µg/kg
		Fumonisin (FB1 FB2)	5µg/kg

**Report issued by:**

Campden BRI (Chipping Campden) Limited

**Prepared/Checked By:** ██████████

**Authorised By:** ██████████

**Authorised** ██████████

Chromatography Section Manager

**Signatories:**

██████████  
 Liquid Chromatography Group Manager

██████████  
 Flavour and Taint Group Manager

██████████  
 Pesticides Group Manager

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**Report No:** AC/REP/134115/64



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<b>Sample Code:</b>	AC/134115/00064	<b>Date of Receipt:</b>	09/09/2014
<b>Description:</b>	Protease (Orizin) concentrate	<b>Condition on Receipt:</b>	Satisfactory for Analysis
<b>Client Code:</b>	Lot no. PZH-N67-009	<b>Testing Performed:</b>	10/09/2014 onwards
<b>Test</b>	<b>Campden BRI Test Reference</b>	<b>Result</b>	
<b>Nutrition</b>			
Protein (Kjeldahl)	TES-AC-087 UKAS	57.3 g/100g	
Total Carbohydrate (by difference)	TES-AC-335 UKAS	27.4 g/100g	
Fat (Weibull-Stoldt)	TES-AC-536 UKAS	<0.1 g/100g	
Moisture (Oven 102°C)	TES-AC-097 UKAS	6.0 g/100g	
Ash (@ 525°C)	TES-AC-086 UKAS	9.31 g/100g	
Protein N Factor	Protein N Factor	6.25	
<b>Elements</b>			
Lead (ICP-MS)	TES-AC-686 UKAS	0.03 mg/kg	
<b>Microbiology</b>			
Coliforms 37°C (presumptive) - Enumeration of	Subcontracted - UKAS	<10 cfu/g	
Escherichia coli (Beta-glucuronidase +ve) - Enumeration of	Subcontracted - UKAS	Not detected/10 g	
Salmonella spp. Cultural Method - Detection of	Subcontracted - UKAS	Not detected /25g	
<b>Mycotoxins</b>			
Aflatoxin B1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin B2	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G2	TES-AC-175 UKAS	<0.2µg/kg	
Total Aflatoxin	TES-AC-175 UKAS	<0.8 µg/kg	
Ochratoxin A	TES-AC-332 UKAS	<0.5 µg/kg	
HT-2 Toxin (HT-2)	TES-AC-687 UKAS	<10.0 µg/kg	
T-2 Toxin (T2)	TES-AC-687 UKAS	<10.0 µg/kg	
Zearalenone (ZON)	TES-AC-687 UKAS	<10.0 µg/kg	
Sterigmatocystin	Determination by LC/MS/MS - NON-UKAS	<10.0 µg/kg	
Fumonisin FB1	AM/041	<5.0 µg/kg	
Fumonisin FB2	AM/041	<5.0 µg/kg	
Antimicrobial activity	Subcontracted - NON-UKAS	Negative	



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 Chipping Norton  
 OX7 5SR

**Report No:** AC/REP/134115/65

**Report Date:** 16/10/2014

**CERTIFICATE OF ANALYSIS**  
**Department of Chemistry & Biochemistry**

**Reporting Limits**

Coliforms	10.0 cfu/g	Aflatoxin B1	0.2µg/kg
Fat (Weibull-Stoldt)	0.1g/100g	Aflatoxin B2	0.2µg/kg
Lead (ICP-MS)	0.01mg/kg	Aflatoxin G1	0.2µg/kg
Protein (Kjeldahl)	0.1g/100g	Aflatoxin G2	0.2µg/kg
Total carbohydrate	0.1g/100g	Total Aflatoxin	0.8µg/kg
Moisture	0.1g/100g	HT-2 Toxin	10µg/kg
Ash	0.05g/100g	T-2 Toxin	10µg/kg
		Zearalenone	10µg/kg
		Ochratoxin A	0.5µg/kg
		Sterigmatocystin	10µg/kg
		Fumonisin (FB1 FB2)	5µg/kg

**Report issued by:**

Campden BRI (Chipping Campden) Limited

**Prepared/Checked By:** [Redacted]

**Authorised By:** [Redacted]

**Authorised**

[Redacted] Chromatography Section Manager

**Signatories:**

[Redacted] Liquid Chromatography Group Manager

[Redacted] Flavour and Taint Group Manager

[Redacted] Pesticides Group Manager

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<b>Sample Code:</b>	AC/134115/00065	<b>Date of Receipt:</b>	09/09/2014
<b>Description:</b>	Protease (Orizin) concentrate	<b>Condition on Receipt:</b>	Satisfactory for Analysis
<b>Client Code:</b>	Lot no. PZH-N67-011	<b>Testing Performed:</b>	10/09/2014 onwards
<b>Test</b>	<b>Campden BRI Test Reference</b>	<b>Result</b>	
<b>Nutrition</b>			
Protein (Kjeldahl)	TES-AC-087 UKAS	57.8 g/100g	
Total Carbohydrate (by difference)	TES-AC-335 UKAS	26.6 g/100g	
Fat (Weibull-Stoldt)	TES-AC-536 UKAS	<0.1 g/100g	
Moisture (Oven 102°C)	TES-AC-097 UKAS	6.4 g/100g	
Ash (@ 525°C)	TES-AC-086 UKAS	9.23 g/100g	
Protein N Factor	Protein N Factor	6.25	
<b>Elements</b>			
Lead (ICP-MS)	TES-AC-686 UKAS	0.03 mg/kg	
<b>Microbiology</b>			
Coliforms 37°C (presumptive) - Enumeration of	Subcontracted - UKAS	<10 cfu/g	
Escherichia coli (Beta-glucuronidase +ve) - Enumeration of	Subcontracted - UKAS	Not detected/10 g	
Salmonella spp. Cultural Method - Detection of	Subcontracted - UKAS	Not detected /25g	
<b>Mycotoxins</b>			
Aflatoxin B1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin B2	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G1	TES-AC-175 UKAS	<0.2 µg/kg	
Aflatoxin G2	TES-AC-175 UKAS	<0.2µg/kg	
Total Aflatoxin	TES-AC-175 UKAS	<0.8 µg/kg	
Ochratoxin A	TES-AC-332 UKAS	<0.5 µg/kg	
HT-2 Toxin (HT-2)	TES-AC-687 UKAS	<10.0 µg/kg	
T-2 Toxin (T2)	TES-AC-687 UKAS	<10.0 µg/kg	
Zearalenone (ZON)	TES-AC-687 UKAS	<10.0 µg/kg	
Sterigmatocystin	Determination by LC/MS/MS - NON-UKAS	<10.0 µg/kg	
Fumonisin FB1	AM/041	<5.0 µg/kg	
Fumonisin FB2	AM/041	<5.0 µg/kg	
Antimicrobial activity	Subcontracted - NON-UKAS	Negative	