



**Megazyme International Ireland,**  
Bray Business Park,  
Bray, Co. Wicklow,  
Ireland.  
Tel: + 353 1 2861220 Fax: + 353 1 2861264

## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 111109  
**Expiry Date:** December, 2014

Bottle 1 100901  
Bottle 2 90102a  
Bottle 3 80201b  
Bottle 4 101204  
Bottle 5 81101b  
Bottle 6 71001b  
Bottle 7 90901

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 21/11/2011

Vincent McKie  
Quality Control Manager

*(as this certificate is a computer printout, it has not been signed or dated by hand)*



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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 111009  
**Expiry Date:** December, 2013

Bottle 1 100901  
Bottle 2 90102a  
Bottle 3 80201b  
Bottle 4 101204  
Bottle 5 81101b  
Bottle 6 71001a  
Bottle 7 90901

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 19/10/2011

Vincent McKie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 111008  
**Expiry Date:** December, 2014

Bottle 1 100901  
Bottle 2 90102a  
Bottle 3 60301g  
Bottle 4 101204  
Bottle 5 81101b  
Bottle 6 71001a  
Bottle 7 90901

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent M<sup>c</sup>Kie

**Date:** 19/10/2011

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 110302  
**Expiry Date:** December, 2013

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 03/03/2011

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 110117  
**Expiry Date:** December, 2013

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 21/01/2011

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 100907  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 24/09/2010

Vincent M<sup>c</sup>Kie  
Quality Control Manager

*(as this certificate is a computer printout, it has not been signed or dated by hand)*



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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 100906  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 24/09/2010

Vincent M<sup>c</sup>Kie  
Quality Control Manager

*(as this certificate is a computer printout, it has not been signed or dated by hand)*



## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 100714  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 21/07/2010

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 100612  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 23/06/2010

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 91105  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 01/12/2009

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 91012  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 21/10/2009

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 80407  
**Expiry Date:** December, 2011

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 01/05/2008

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 80304  
**Expiry Date:** December, 2010

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 14/03/2008

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 80205  
**Expiry Date:** December, 2010

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:**

Vincent McKie

**Date:** 14/02/2008

Vincent McKie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 71104  
**Expiry Date:** December, 2010

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 16/11/2007

Vincent McKie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 71002  
**Expiry Date:** December, 2010

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** 

**Date:** 09/10/2007

Vincent M<sup>c</sup>Kie  
Quality Control Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 70402  
**Expiry Date:** December, 2009

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** *Patricia Rossiter*

**Date:** 10/04/2007

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 70105  
**Expiry Date:** December, 2009

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** *Patricia Rossiter*

**Date:** 14/12/2007

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 60901  
**Expiry Date:** September, 2009

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** *Patricia Rossiter*

**Date:** 04/09/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 60503  
**Expiry Date:** May, 2009

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** *Patricia Rossiter*

**Date:** 17/05/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** L-Arginine/Urea/Ammonia Assay Kit  
**Cat. No:** K-LARGE  
**Lot. No:** 60329  
**Expiry Date:** March, 2009

Test	Specification	Result
Assay performance	Reaction completed within time stated in kit booklet	Corresponds
	Target value for recommended standard material +/- 2 %	Corresponds
Blank reaction absorbance	+/- 10 % of mean blank value	Corresponds

This lot meets our specification.

**Signature:** *Patricia Rossiter*

**Date:** 28/03/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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