



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

## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 110536  
**Expiry Date:** December, 2014

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:** 20/05/2011

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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Bray Business Park,  
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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 110104  
**Expiry Date:** December, 2014

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:** 05/01/2011

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 110103  
**Expiry Date:** December, 2014

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:** 05/01/2011

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 110102  
**Expiry Date:** December, 2012

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:** 05/01/2011

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 101203  
**Expiry Date:** December, 2012

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:** 22/12/2010

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 100719  
**Expiry Date:** December, 2012

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:** 21/07/2010

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 100304  
**Expiry Date:** December, 2012

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:** 05/03/2010

Vincent McKie  
Quality Control Manager

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 100226  
**Expiry Date:** December, 2012

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:** 18/02/2010

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 90903  
**Expiry Date:** December, 2012

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:** 11/09/2009

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 90401  
**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:** 03/04/2009

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 90304  
**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:** 10/03/2009

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 80501  
**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:** 16/05/2008

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

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 70421  
**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:** *Patricia Rossiter*

**Date:** 03/05/2007

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 70306  
**Expiry Date:** December, 2008

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:** 13/03/2007

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 61011  
**Expiry Date:** December, 2008

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:** 24/10/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 61010  
**Expiry Date:** December, 2008

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:** 24/10/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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## Certificate of Analysis

**Product:** Succinic Acid Assay Kit  
**Cat. No:** K-SUCC  
**Lot. No:** 60307  
**Expiry Date:** December, 2008

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:** 07/03/2006

Patricia Rossiter  
Quality Control Laboratory Manager

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