



### Certificate of Analysis

Product Name:	Crystel GOLD      CRY 102
Reference:	CRY/GOL/019
Batch Number:	P623700
Date of Manufacture:	22-AUG-16
Expiry Date:	AUG-2018

This is to certify that Crystel Gold solution above was tested on 22-AUG-16 and found to comply with all requirements as set out in the specifications and method of analysis.

PROPERTIES	SPECIFICATION	RESULTS
APPEARANCE	Clear and free from suspended matter	Conforms
ODOUR	Alcohol like	Conforms
SPECIFIC GRAVITY	0.870 – 0.890	0.872
STERILITY	No growth	Conforms
IRRADIATION	Achieves minimum dose	Conforms
ENDOTOXIN	<0.25EU/ml	<0.1
	Recovery 50-200%	110%

Completed By:

Reviewed By:

Quality Department: *E Andrews*

.....

Date: *7 October 2016*

Date: *07-OCT-2016*

DRF1574 CRY/GOL/006/Issue4/Sept2012



## Sterility Testing Analytical Report

Please note the results below are not generated at Associates of Cape Cod Int. Inc., but reported from a subcontractor's final report.

<b>Sample ID:</b> CRY102 Gold <b>Lot No:</b> P623700 <b>ICN:</b> 0916012D <b>Subcontractor's Report Number:</b> 2016220533	<b>Lab Book Reference:</b> ST03-30 <b>Date Received:</b> 14 Sep 2016 <b>Date Completed:</b> 03 Oct 2016 <b>No. of samples:</b> 10
---	--

### Sterility Test – Membrane Filtration

Medium	Result
Tryptone Soy Broth	No growth
Fluid Thioglycollate Medium	No growth

#### Conclusions:

The samples submitted comply with the test for sterility in accordance with the client's methodology.

#### Results Reported by:

.....  
 Laboratory Technician: Charlotte Ray

Date: 03 Oct 2016 .....

#### Reviewed by:

- .....  
 Quality Assurance Manager  
 UK General Manager  
 Technical Manager  
 Laboratory Manager

Date: 04 Oct 2016 .....

#### QA Approved by:

- .....  
 Quality Assurance Manager  
 UK General Manager  
 Technical Manager

Date: 04 OCT 2016 .....

#### Revision History:

DCCF No:	Revision:	Description:	Originator:	Effective Date:
N/A	1	Revision 1, no changes	C RAY	03 Oct 2016

CONFIDENTIAL

Page 1 of 1

ST03-30  
 REVISION NO: 1

ICN: 0916012D  
 DATE: 03 Oct 2016

TSCTS044-1 Rev 2

UK  
 Deacon Park  
 Moongate Road  
 Knowsley  
 Liverpool L33 7RN  
 Tel: +44 (0)151 547 7444  
 Fax: +44 (0)151 547 7400

USA  
 124 Bernard E. Saint Jean Drive  
 East Falmouth  
 MA 02536-4445  
 USA  
 Tel: 001 508 510 3444  
 Fax: 001 508 510 8680

Germany  
 PYROQUANT DIAGNOSTIK GmbH  
 Opelstrasse 14  
 D-61546 Montelken-Walldorf  
 Germany  
 Tel: 0049 6105 96 10 0  
 Fax: 0049 6105 96 10 15

Web: [www.acciuk.co.uk](http://www.acciuk.co.uk)

**LIMULUS AMEBOCYTE LYSATE (LAL) ANALYTICAL REPORT**  
**Release Test - Kinetic Turbidimetric Method (SOPCTS012)**

**Sample ID:** CRY102 GOLD  
**Lot No:** P623700  
**ICN No:** 0916012D

**Lab Book Reference:** EL188-22  
**Date Received:** 14 SEP 2016  
**Date Completed:** 21 SEP 2016

**Reagents**

**Pyrotell®-T:** Lot Number 516-04-780-T. Pyrotell®-T was reconstituted with Pyrosol® Buffer and used to Assay all dilutions.

**Pyrosol® Buffer:** Lot Number 226-389.

**LAL Reagent Water (LRW):** Lot Number AAH207245. LRW was used to reconstitute endotoxin, prepare dilutions of endotoxin and sample(s), and serve as the negative control.

**Instrumentation:** Pyros® Kinetix Incubating Kinetic Tube Reader; S/N; 3G-1166.

**Reference Standard Endotoxin (RSE):** Lot number 10/178, the reconstituted concentration of the RSE is 2,000 EU/ml.

The sensitivity of the assay is the lowest concentration of RSE used to construct the calibration curve. A series of 10-fold dilutions between 0.001 and 1.0 EU/ml was tested in duplicate and the results were used to construct the standard curve.

**Preparation and Testing of Sample:** The samples were diluted with LRW and analysed at a 1:100 dilution, in accordance with validation EL168-03. Positive product controls were tested, in parallel, on sample dilutions spiked with an Endotoxin concentration of 0.1 EU/ml. The sample to lysate ratio was 4:1.

**Results:** The Release Test is performed according to a validated method and is used to release finished products. The test can also be performed for release of raw/in-process materials. The absolute value for the correlation coefficient for the regression of log onset time versus log endotoxin concentration was greater than or equal to 0.980. The negative control (LRW) was tested in duplicate and contained less than 0.001 EU/ml. Inhibition or enhancement of the bacterial Endotoxin test by the sample is absent if the concentration of the Endotoxin assayed in the Positive Product Controls are within 50% to 200% of the nominal concentration.

CONFIDENTIAL

Page 1 of 2

EL188-22  
REVISION NO: 1

ICN: 0916012D  
DATE: 21 SEP 2016

TSCS015-3.1 Rev 17

UK  
Deacon Park  
Moongate Road  
Knonsky  
Liverpool L33 7RX  
Tel: +44(0)151 547 7444  
Fax: +44(0)151 547 7400

USA  
124 Bernard E. Saint-Jean Drive  
East Falmouth  
MA 02536-1445  
USA  
Tel: 001 508 540 3444  
Fax: 001 508 540 8680

Germany  
PYROQUANT DIAGNOSTIK GmbH  
Opelstrasse 14  
D-64546 Morfelden-Walldorf  
Germany  
Tel: 0049 6105 96 10 0  
Fax: 0049 6105 96 10 15

Web: [www.acciuk.co.uk](http://www.acciuk.co.uk)

Registered in England and Wales. Company Registration Number: BR002906



**Sample Results:**

Sample Identification	% Spike Recovery	EU/ml
CRY102 GOLD P623700	110	<0.1

All Samples analysed passed the specification of < 0.25 EU/ml.

**Approval:**

**Technician:**.....  
Laboratory Technician: *Charlotte Ray*

**Date:**..... *21 Sep 2016*.....

**Reviewed By:**.....

**Date:**..... *21 Sep 2016*.....

- Quality Assurance Manager
- UK General Manager
- Technical Manager
- Laboratory Manager

**QA Approval:**.....

**Date:**..... *26 Sep 2016*.....

- Quality Assurance Manager
- UK General Manager
- Technical Manager

**References:**

Associates of Cape Cod SOPCTS012, *General Kinetic LAL Turbidimetric Assay*  
United States Pharmacopoeia <85> *Bacterial Endotoxins Test*  
European Pharmacopoeia, *Section 2.6.14.*

**Revision History:**

DCCF No:	Revision:	Description:	Originator	Effective Date:
N/A	1	Revision 1: No changes	C RAY	21 SEP 2016



<http://www.synergyhealthplc.com>

# Certificate of Irradiation

Date Issued: 04-Sep-2016

UK33S11693825-1-1

This is to certify that AST Daventry Synergy Health PLC has where appropriate delivered an irradiation process in accordance with:

EN ISO 11137-1:2015 Sterilisation of Health Care Products

EN ISO 9001:2008 Quality Management System

EN ISO 13485:2012 Quality System - Medical Devices

The Tristel Company Ltd  
Unit 4C Lynx Bus Park, Fordham Rd  
Newmarket  
Suffolk CB8 7NY  
UNITED KINGDOM

---

## Order Information

Account Number:	100708
Synergy Health Sales Part Reference:	1058415
Customer Reference Number:	703023
Product Description:	ALCOHOL CRY102 15-40kGy
Validation Reference:	4093
Quantity Received:	95
Customer Minimum Specification kGy:	15.0
Customer Maximum Specification kGy:	40.0
Customer Unit Lot/Batch Number:	P623700, 2 PLTS

---

## Irradiation Data

Date and Time of Irradiation:	04-Sep-2016 20:09
Reference Dose Range kGy:	29.5 - 30.9
Calculated Minimum Dose kGy:	24.0
Calculated Maximum Dose kGy:	34.7

---

Irradiation Release Authorised By Synergy Health plc

Processing Site: Brunel Close, Drayton Fields Industrial Estate, Daventry, NN11 8RB Phone No: +44 (0) 1327 706111

Registered Office: Ground Floor Stella, Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire SN5 6NX, UNITED KINGDOM  
Company Registered in England and Wales No: 01771333 VAT Number: GB 813038069