



Certificate of Analysis

| | |
|----------------------|------------------------------------|
| Product Name: | Crystel GOLD CRY 101 |
| Reference: | CRY/GOL/019 |
| Batch Number: | P733300 |
| Date of Manufacture: | 2017.11.24 |
| Expiry Date: | 2019.11 |

This is to certify that Crystel Gold solution above was tested on 2017.11.24 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 | 0.874 |
| STERILITY | No growth | Conforms |
| IRRADIATION | Achieves minimum dose | Conforms |
| ENDOTOXIN | <0.25EU/ml | <0.1 |
| | Recovery 50-200% | 118% |

Completed By:

Quality Department: *Eandrews*

Date: *2018-01-16*

Reviewed By:

Steph

Date: *2018-01-16*

DRF1574 CRY/GOL/006/Issue4/Sept2012

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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.

Sample ID: CRY101 Gold
Lot No: P733300
ICN: 1217016D
Subcontractor's Report Number: 2017238609

Lab Book Reference: ST03-123
Date Received: 19 Dec 2017
Date Completed: 05 Jan 2018
No. of samples: 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/Designee: Daniel Jennings

Date: 05 JAN 2018

Reviewed by:


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

Date: 09 JAN 2018

QA Approved by:


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

Date: 10 JAN 2018

Revision History:

| DCCF No: | Revision: | Description: | Originator: | Effective Date: |
|----------|-----------|------------------------|-------------|-----------------|
| N/A | 1 | Revision 1, no changes | D. Jennings | 05 Jan 2018 |

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ST03-123

ICN: 1217016D

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TSCTS044-1 Rev 3

REVISION NO: 1

DATE: 05 Jan 2018

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

Sample ID: Cry101 Gold
Lot No: P733300
ICN No: 1217016D

Lab Book Reference: EL193-111
Date Received: 19 Dec 2017
Date Completed: 09 Jan 2018

Reagents

Pyrotell®-T: Lot Number 517-08-837-T. Pyrotell®-T was reconstituted with Pyrosol® Buffer and used to Assay all dilutions.

Pyrosol® Buffer: Lot Number 226-410.

LAL Reagent Water (LRW): Lot Number AC10244559. 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; 1E-1055.

Control Standard Endotoxin (CSE): Lot number 154, *Escherichia coli* O113:H10. The potency of the CSE is 12 EU/ng when measured against Reference Standard Endotoxin (RSE), lot number H0K354 (Food and Drug Administration, CBER) with Pyrotell®-T lot number 517-08-837-T.

The sensitivity of the assay is the lowest concentration of CSE 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.

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REVISION NO: 1

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ICN: 1217016D

DATE: 09 Jan 2018

TSCTS015-3.1 Rev 17

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Web: www.acciuk.co.uk

Registered in England and Wales. Company Registration Number: BR002906

**Sample Results:**

| Sample Identification | % Spike Recovery | EU/mL |
|------------------------|------------------|-------|
| Cry101 Gold P733300 | 118 | <0.1 |

All samples analysed passed the specification of <0.25 EU/mL.

Approval:

Technician: 
Laboratory Technician: C.Thornton

Date: 12 JAN 2018

Reviewed By: 

Date: 12 JAN 2018

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

QA Approval: 

Date: 12 Jan 2018

- 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:

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|----------|-----------|-------------------------|------------|-----------------|
| N/A | 1 | Revision 1, no changes. | C.Thornton | 09 Jan 2018 |

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ICN: 1217016D
DATE: 09 Jan 2018

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<http://www.steris-ast.com>

Certificate of Irradiation

Date Issued: 10-Dec-2017

UK33S12026994-1-2

This is to certify that AST Daventry Synergy Health PLC, a STERIS Company has where appropriate delivered an irradiation process in accordance with the current certified standards:

EN ISO 11137-1 Sterilisation of Health Care Products
EN ISO 13485 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: | 1108717 |
| Customer Reference Number: | 706111 |
| Product Description: | ALCOHOL 1 LTR TRIGGER SPRAY DV4778 20-45kGy |
| Validation Reference: | 4778 |
| Quantity Received: | 155 |
| Customer Minimum Specification kGy: | 20.0 |
| Customer Maximum Specification kGy: | 45.0 |
| Customer Unit Lot/Batch Number: | CRY101, B/N: P733300, 3 plts |

Irradiation Data

| | |
|-------------------------------|-------------------|
| Date and Time of Irradiation: | 10-Dec-2017 14:38 |
| Reference Dose Range kGy: | 35.7 - 36.4 |
| Calculated Minimum Dose kGy: | 28.9 |
| Calculated Maximum Dose kGy: | 42.0 |

Irradiation Release Authorised By Synergy Health Sterilisation UK, a STERIS Company

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
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