



Certificate of Analysis

Product Name:	Crystel GOLD CRY 101
Reference:	CRY/GOL/019
Batch Number:	P632300
Date of Manufacture:	17-NOV-16
Expiry Date:	NOV-2018

This is to certify that Crystel Gold solution above was tested on 17-NOV-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	0.874
STERILITY	No growth	Conforms
IRRADIATION	Achieves minimum dose	Conforms
ENDOTOXIN	<0.25EU/ml	<0.1
	Recovery 50-200%	115%

Completed By:

Reviewed By:

Quality Department: *E Andrews*

[Signature]

Date: *18 Jan 2017*

Date: *18/1/17*

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.

Sample ID: CRY101 GOLD Lot No: P632300 ICN: 1216009D Subcontractor's Report Number: 2016280423	Lab Book Reference: ST03-54 Date Received: 13 DEC 2016 Date Completed: 03 JAN 2017 No. of samples: 10
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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 JAN 2017

Reviewed by:

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

Date: 04 JAN 2017

QA Approved by:

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

Date: 04 JAN 2017

Revision History:

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

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ST03-54
REVISION NO: 1

ICN: 1216009D
DATE: 03 JAN 2017

TSCTS044-1 Rev 2

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Registered in England and Wales. Company Registration Number: BR002906



Specialists in Endotoxin and Glucan Detection

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

Sample ID: CRY101 GOLD
Lot No: P632300
ICN No: 1216009D

Lab Book Reference: EL188-51 (B)
Date Received: 13 DEC 2016
Date Completed: 04 JAN 2017

Reagents

Pyrotell®-T: Lot Number 516-05-784-T. Pyrotell®-T was reconstituted with Pyrosol® Buffer and used to Assay all dilutions.

Pyrosol® Buffer: Lot Number 226-391.

LAL Reagent Water (LRW): Lot Number AAK207301. 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.

Control Standard Endotoxin (CSE): Lot number 152, *Escherichia coli* O113:H10. The potency of the CSE is 20 EU/ng when measured against Reference Standard Endotoxin (RSE), lot number H0K354 (Food and Drug Administration, CBER) with Pyrotell®-T lot number 516-05-784-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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EL188-51 (B)
REVISION NO: 1

ICN: 1216009D
DATE: 04 JAN 2017

TSCTS015-3.1 Rev 17

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Sample Results:

Sample Identification	% Spike Recovery	EU/ml
CRY101 GOLD P632300	115	<0.1

All samples analysed passed the specification of 0.25 EU/ml.

Approval:

Technician:
Laboratory Technician: *Charlotte Ray*

Date: *04 JAN 2017*

Reviewed By:
[Signature]

Date: *04 Jan 2017*

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

QA Approval:
[Signature]

Date: *04 JAN 2017*

- 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	04 JAN 2017

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EL188-51 (B)
REVISION NO: 1

ICN: 1216009D
DATE: 04 JAN 2017

TSCTS015-3.1 Rev 17



<http://www.synergyhealthplc.com>

Certificate of Irradiation

Date Issued: 30-Nov-2016

UK33S11758181-1-1

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:	1108717
Customer Reference Number:	703674
Product Description:	ALCOHOL 1 LTR TRIGGER SPRAY DV4778 20-45kGy
Validation Reference:	4778
Quantity Received:	316
Customer Minimum Specification kGy:	20.0
Customer Maximum Specification kGy:	45.0
Customer Unit Lot/Batch Number:	BN: 632002 P322200 X 158, BN: 632200 P632300N X 158, 6 PLTS

Irradiation Data

Date and Time of Irradiation:	30-Nov-2016 00:21
Reference Dose Range kGy:	32.6 - 35.7
Calculated Minimum Dose kGy:	26.4
Calculated Maximum Dose kGy:	41.2

Irradiation Release Authorised By Synergy Health plc

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

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