Crystel

Certificate of Analysis

Product Name:	**Crystel GOLD CRY 101**
Reference:	CRY/GOL/019
Batch Number:	P808600
Date of Manufacture:	2018-03-23
Expiry Date:	2020-03-23

This is to certify that Crystel Gold solution above was tested on 2018-03-23 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	0.875
STERILITY	No growth	Conforms
IRRADIATION	Achieves minimum dose	Conforms
ENDOTOXIN	<0.25EU/ml	<0.1
	Recovery 50-200%	131%

Completed By:

Quality Department: EAndrews

Date: 2018-05-22

Reviewed By:

Kielinska

Date: 2018-05-22

DRF1574 CRY/GOL/006/Issue4/Sept2012

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ASSOCIATES OF CAPE COD INTERNATIONAL

Specialists in Endotoxin and Glucan Detection

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: P808600
ICN: 0418030D
Subcontractor's Report Number: 2018077478

Lab Book Reference: ST03-163
Date Received: 27 APR 2018
Date Completed: 17 MAY 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:

L Ellis ..... Date: 18 MAY 2018
Laboratory Technician/Designee: L Ellis

Reviewed by:

..... Date: 22 May 2018
☑ Quality Assurance Manager
☐ UK General Manager
☐ Technical Manager
☐ Laboratory Manager

QA Approved by:

..... Date: 22 MAY 2018
☑ Quality Assurance
☐ UK General Manager
☐ Technical Manager

Revision History:

DCCF No:	Revision:	Description:	Originator:	Effective Date:
NA	1	Revision 1, no changes	L Ellis	17 MAY 2018

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

Sample ID:Cry101 Gold
Lot No:P808600
ICN No:0418030D

Lab Book Reference:EL193-176
Date Received:27 APR 2018
Date Completed:03 MAY 2018

Reagents

Pyrotell®-T: Lot Number 517-10-848-T. Pyrotell®-T was reconstituted with Pyrosol® Buffer and used to Assay all dilutions.

Pyrosol® Buffer: Lot Number 226-414.

LAL Reagent Water (LRW): Lot Number AC11160291. 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 159, The potency of the CSE is 14 EU/ng when measured against Reference Standard Endotoxin (RSE), lot number H0K 354 (Food and Drug Administration, CBER) with Pyrotell®-T lot number 517-10-848-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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Sample Results:

Sample Identification	% Spike Recovery	EU/ml
Cry101 Gold Lot no: P808600	131	<0.1

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

Approval:

Techncian:..... **Date:** 03MAY2018
Laboratory Technician: L Ellis

Reviewed By:.....
☑ Review Board
☐ Laboratory Manager
Date: 04MAY2018.

QA Approval:.....
☑ Review Board
Date: 04 MAY 2018

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:
NA	1	Revision 1, No changes	L Ellis	03MAY2018

STERIS

http://www.steris-ast.com

Certificate of Irradiation

Date Issued: 15-Apr-2018 **UK33S12091361-1-1**

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:	706954
Product Description:	ALCOHOL 1 LTR TRIGGER SPRAY DV4778 20-45kGy
Validation Reference:	4778
Quantity Received:	115
Customer Minimum Specification kGy:	20.0
Customer Maximum Specification kGy:	45.0
Customer Unit Lot/Batch Number:	BN: P808600, 3 PLTS

Irradiation Data

Date and Time of Irradiation:	15-Apr-2018 17:41
Reference Dose Range kGy:	34.2 - 35.6
Calculated Minimum Dose kGy:	27.7
Calculated Maximum Dose kGy:	41.0

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