

## Microbiology Report

CLIENT: BET Pharmacy-KY  
Web Report

ARL #: 456267-01

LOT #: 29416@8

DESCRIPTION: Thyroxine Microparticles 50 mg

DATE RECEIVED: 03/15/2018

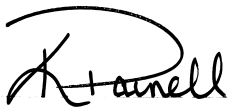
STORAGE: 2°C to 8°C (35.6°F to 46.4°F)

CONTAINER: Nine 5 mL amber vials w/powder, Nine 5 mL clear vials w/solution in a clear bag

ANALYSIS	Limits	Results	Test Method	Date Tested
Sterility (*Preliminary*)	Sterile / Not Sterile	No Growth at 4 Days	USP <71>	03/15/2018
Endotoxin	35.97 EU/mcg	<0.002 EU/mcg	USP <85>	03/21/2018
Fungal	Sterile / Not Sterile	No Growth at 4 Days	MBI-114	03/15/2018

Formulation ID: 04

The citation to USP <71> is conditioned on the accuracy of our customer's verification that the sampling program complies with the provisions of USP <71>.



03/21/2018

Keshia Parnell - Microbiologist II

Date Reported

*Sterility – This preliminary report was issued after approximately 72 hours of incubation. In accordance with the test methodology, the sample will be incubated for 14 days; if there is any change in the sample a supplemental report will be issued.*

*Fungal – This preliminary report was issued after approximately 4 days of incubation. In accordance with the test methodology, the sample will be incubated for 14 days; if there is any change in the sample a supplemental report will be issued.*

*Endotoxin - To calculate the endotoxin limit use the following formulae:  $EL = K/M$  where  $K$  = tolerance limit (EU/kg) and  $M$  = Maximum dose/kg/hour or Maximum dose/kg*

*Parenteral:  $K$  is 5 EU/kg for any route of administration /Intrathecal:  $K$  is 0.2 EU/kg body weight)*

*Radiopharmaceutical parenteral:  $K$  is  $175/V$  or Intrathecal radiopharmaceuticals:  $K$  is  $14/V$ , where  $V$  is the maximum recommended dose in mL.*

*Dermal Application:  $K/M$ , where  $K$  = 5 EU/kg and  $M$  is the (maximum dose/m<sup>2</sup>/hour × 1.80 m<sup>2</sup>)/70 Kg.*

Results reported above relate only to the sample that was tested.



**ARL BIO PHARMA**  
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 FAX (405) 271-1174

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CONTAINER: Nine 5 mL amber vials w/powder, Nine 5 mL clear vials w/solution in a clear bag

ANALYSIS	Limits	Results	Test Method	Date Tested
Sterility	Sterile / Not Sterile	No Growth at 14 Days (subcultured) *	USP <71>	03/15/2018
Fungal	Sterile / Not Sterile	No Growth at 14 Days (subcultured) *	MBI-114	03/15/2018

Formulation ID: 04

The citation to USP <71> is conditioned on the accuracy of our customer’s verification that the sampling program complies with the provisions of USP <71>.

\* This is not a final result. After 14 days of incubation, the material being tested rendered the media turbid so that the presence or absence of microbial growth cannot be readily determined by visual examination. Per USP <71>, the sample will be inoculated into new growth media and incubated for an additional 4 days before the test is complete. An updated report will be issued at the conclusion of the test.

03/29/2018

Keshia Parnell - Microbiologist II

Date Reported

*Sterility – 14 day sterility report. In accordance with the test methodology, the sample was incubated for 14 days.*

*Fungal – 14 day fungal report. In accordance with the test methodology, the sample was incubated for 14 days.*

*Results reported above relate only to the sample that was tested.*



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ANALYSIS	Limits	Results	Test Method	Date Tested
Sterility	Sterile / Not Sterile	Sterile	USP <71>	03/15/2018
Fungal	Sterile / Not Sterile	Sterile	MBI-114	03/15/2018

Formulation ID: 04

The citation to USP <71> is conditioned on the accuracy of our customer’s verification that the sampling program complies with the provisions of USP <71>.

04/02/2018

Keshia Parnell - Microbiologist II

Date Reported

*Sterility – 18 day sterility report. In accordance with the test methodology, the sample was incubated for a minimum of 18 days.*

*Fungal – 18 day fungal report. In accordance with the test methodology, the sample was incubated for a minimum of 18 days.*

*Results reported above relate only to the sample that was tested.*