



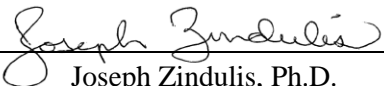
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 107331A EXP. DATE: 11/2019

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|---------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 91 Count at 45 minutes: 80 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | $<1 \times 10^{-6}$ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
Weber Scientific
2732 Kuser Road
Hamilton, NJ 08691
(609) 584-7677


Joseph Zindulis, Ph.D.
Production Manager
January 1, 2018



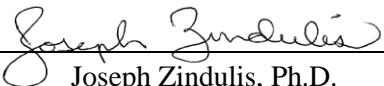
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 107332A EXP. DATE: 11/2019

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|---------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 75 Count at 45 minutes: 75 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | $<1 \times 10^{-6}$ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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Production Manager
January 1, 2018



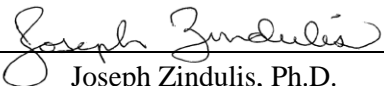
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 107333A EXP. DATE: 11/2019

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 79 Count at 45 minutes: 69 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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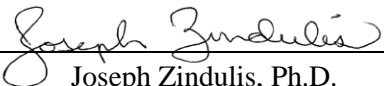
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 107334A EXP. DATE: 11/2019

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 78 Count at 45 minutes: 78 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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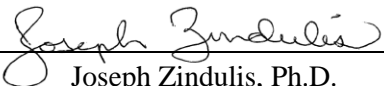
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 107335A EXP. DATE: 11/2019

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 81 Count at 45 minutes: 71 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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January 1, 2018



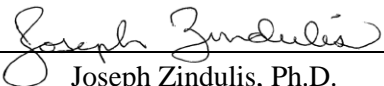
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108029A EXP. DATE: 1/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|---------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 65 Count at 45 minutes: 76 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | $<1 \times 10^{-6}$ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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March 13, 2018



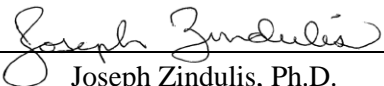
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108030A EXP. DATE: 1/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 73 Count at 45 minutes: 67 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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Production Manager
March 13, 2018



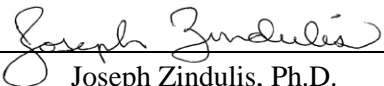
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108031A EXP. DATE: 1/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 62 Count at 45 minutes: 69 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Joseph Zindulis, Ph.D.
Production Manager
March 13, 2018



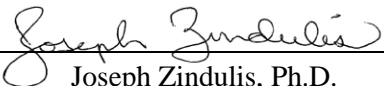
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108032A EXP. DATE: 2/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 72 Count at 45 minutes: 64 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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(609) 584-7677


Joseph Zindulis, Ph.D.
Production Manager
March 13, 2018



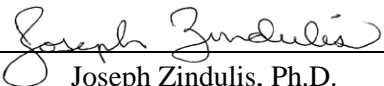
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108033A EXP. DATE: 2/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 69 Count at 45 minutes: 72 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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Joseph Zindulis, Ph.D.
Production Manager
March 13, 2018



CERTIFICATE OF ANALYSIS

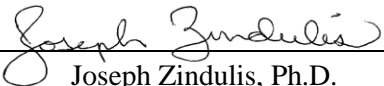
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108079A EXP. DATE: 3/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 84 Count at 45 minutes: 85 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Production Manager

April 30, 2018



CERTIFICATE OF ANALYSIS

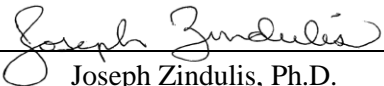
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108081A EXP. DATE: 3/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 76 Count at 45 minutes: 72 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Joseph Zindulis, Ph.D.
Production Manager

April 30, 2018



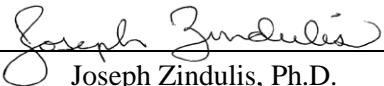
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108082A EXP. DATE: 3/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|---------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 91 Count at 45 minutes: 75 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | $<1 \times 10^{-6}$ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Joseph Zindulis, Ph.D.
Production Manager

April 30, 2018



CERTIFICATE OF ANALYSIS

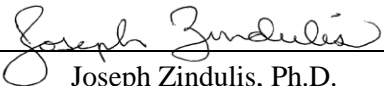
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108106A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 68 Count at 45 minutes: 88 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Joseph Zindulis, Ph.D.
Production Manager

June 5, 2018



CERTIFICATE OF ANALYSIS

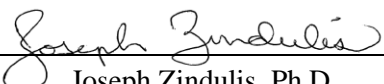
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108107A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 82 Count at 45 minutes: 86 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Production Manager

June 5, 2018



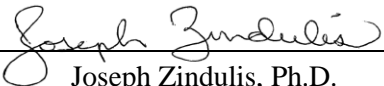
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108108A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 76 Count at 45 minutes: 91 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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June 5, 2018



CERTIFICATE OF ANALYSIS

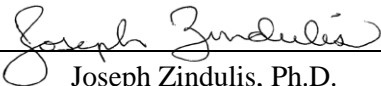
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108109A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 83 Count at 45 minutes: 84 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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June 5, 2018



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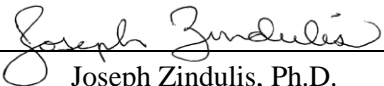
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108110A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 73 Count at 45 minutes: 71 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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June 5, 2018



CERTIFICATE OF ANALYSIS

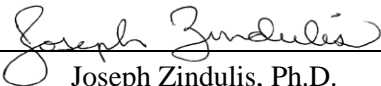
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108113A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 82 Count at 45 minutes: 79 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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Production Manager

June 5, 2018



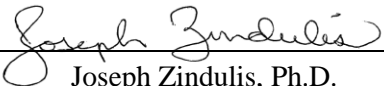
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108114A EXP. DATE: 4/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 81 Count at 45 minutes: 86 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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Production Manager

June 5, 2018



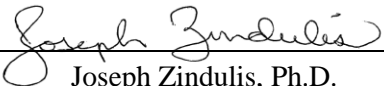
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108155A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 65 Count at 45 minutes: 81 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Production Manager

July 25, 2018



CERTIFICATE OF ANALYSIS

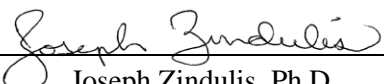
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108156A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 79 Count at 45 minutes: 64 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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Production Manager

July 25, 2018



CERTIFICATE OF ANALYSIS

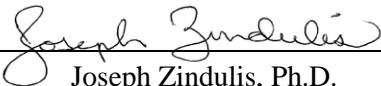
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108157A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 84 Count at 45 minutes: 68 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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July 25, 2018



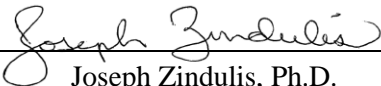
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108158A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 68 Count at 45 minutes: 74 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
Weber Scientific
2732 Kuser Road
Hamilton, NJ 08691
(609) 584-7677



Joseph Zindulis, Ph.D.
Production Manager

July 25, 2018



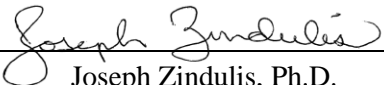
CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer
CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108159A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 74 Count at 45 minutes: 68 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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CERTIFICATE OF ANALYSIS

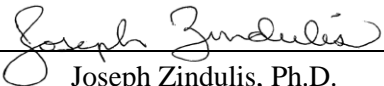
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108162A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 64 Count at 45 minutes: 63 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

Made By:
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2732 Kuser Road
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Joseph Zindulis, Ph.D.
Production Manager

July 25, 2018



CERTIFICATE OF ANALYSIS

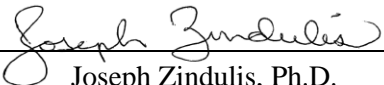
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer

CATALOG No. 3127-09 VOLUME (ml) 9 LOT No. 108163A EXP. DATE: 6/2020

| TEST | RESULTS | SPECIFICATION | METHOD |
|------------------------|---|----------------------|--------------------|
| TOXICITY* | Count at 0 minutes: 70 Count at 45 minutes: 61 PASSES | < 20% DECREASE | WS cSOP 24.3; 54.0 |
| STERILITY | PASSES | <1 x10 ⁻⁶ | Gamma Irradiated |
| PACKAGE INTEGRITY TUBE | CONFORMS | NO LEAKING | WS cSOP 14.4 |

*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

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