



Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

LuciPac Pen

Product code :60331

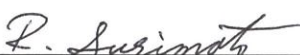
Lot No.: 20220512U

Expiry date: Aug. 11, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Average Luminescence(RLU)	12800	$\geq 9100, \leq 16900$

(When applied 100 μ L of 5 pmol AMP: measured with Lumitester Smart)

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6033100ab-Eaa
SA2206-0206

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company



Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

LuciPac Pen

Product code :60331

Lot No.: 20220513U

Expiry date: Aug. 12, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Average Luminescence(RLU)	12800	$\geq 9100, \leq 16900$

(When applied 100 μ L of 5 pmol AMP: measured with Lumitester Smart)

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6033100ab-Eaa
SA2206-0207

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company



Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

LuciPac Pen

Product code :60331

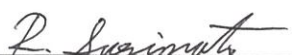
Lot No.: 20220606U

Expiry date: Sep. 05, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Average Luminescence(RLU)	14100	$\geq 9100, \leq 16900$

(When applied 100 μ L of 5 pmol AMP: measured with Lumitester Smart)

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6033100ab-Eaa
SA2206-0208

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company



Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

LuciPac Pen

Product code :60331

Lot No.: 20220607U

Expiry date: Sep. 06, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Average Luminescence(RLU)	13000	$\geq 9100, \leq 16900$

(When applied 100 μ L of 5 pmol AMP: measured with Lumitester Smart)

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6033100ab-Eaa
SA2206-0209

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company



Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

LuciPac Pen-AQUA

Product code :60336

Lot No.: 20220420Q

Expiry date: Jul. 19, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Average Luminescence(RLU)	13300	$\geq 9100, \leq 16900$

(When applied 100 μ L of 5 pmol AMP: measured with Lumitester Smart)

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6033600ab-Eaa
SA2206-0210

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS**LuciPac A3 Surface**

Product code :60361

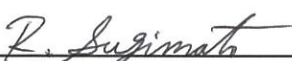
Lot No.: 20220613Y

Expiry date: Sep. 12, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
When applied 100 μ L of 5pmol ADP Average Luminescence(RLU)	12600	$\geq 9100, \leq 16900$
When applied 100 μ L of 5pmol AMP Average Luminescence(RLU)	12400	$\geq 9100, \leq 16900$

Measured with Lumitester Smart

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; ManagerDate Jun. 22, 2022KBG6036100ac-Eaa
SA2206-0211Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS**LuciPac A3 Surface**

Product code :60361

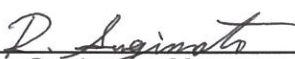
Lot No.: 20220614Y

Expiry date: Sep. 13, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
When applied 100μL of 5pmol ADP Average Luminescence(RLU)	13500	$\geq 9100, \leq 16900$
When applied 100μL of 5pmol AMP Average Luminescence(RLU)	13200	$\geq 9100, \leq 16900$

Measured with Lumitester Smart

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; ManagerDate Jun. 22, 2022KBG6036100ac-Eaa
SA2206-0212Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS**LuciPac A3 Surface**

Product code :60361

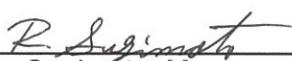
Lot No.: 20220615Y

Expiry date: Sep. 14, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
When applied 100 μ L of 5pmol ADP Average Luminescence(RLU)	13100	$\geq 9100, \leq 16900$
When applied 100 μ L of 5pmol AMP Average Luminescence(RLU)	12500	$\geq 9100, \leq 16900$

Measured with Lumitester Smart

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; ManagerDate Jun. 22, 2022KBG6036100ac-Eaa
SA2206-0213Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS**LuciPac A3 Water**

Product code :60365

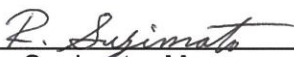
Lot No.: 20220421W

Expiry date: Jul. 20, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
When applied 100μL of 5pmol ADP Average Luminescence(RLU)	12400	$\geq 9100, \leq 16900$
When applied 100μL of 5pmol AMP Average Luminescence(RLU)	12200	$\geq 9100, \leq 16900$

Measured with Lumitester Smart

This is to certify that above information is a true and accurate copy of data obtained for this kit.


Ryosuke Sugimoto; ManagerDate Jun. 22, 2022KBG6036500ac-Eaa
SA2206-0214Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate AC

Product code :61973

Lot No.: AC20220314A

Expiry date: Sep. 13, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	* See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

*The ratio of the average colony count on the product to the plate count agar(%).

Escherichia coli (NBRC15034) : 70-200

Bacillus subtilis (NBRC3134) : 70-350

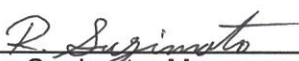
Klebsiella pneumoniae (NBRC14940) : 50-200

Pseudomonas aeruginosa (NBRC3899) : 70-350

Staphylococcus aureus (ATCC25923) : 50-200

Enterococcus faecalis (NBRC100482) : 70-200

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197300aa-Eaa
SA2206-0215

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate AC

Product code :61973

Lot No.: AC20220315A

Expiry date: Sep. 14, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	* See below
Spreading time	passed test	$\leq$ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	$\leq$ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

*The ratio of the average colony count on the product to the plate count agar(%).

Escherichia coli (NBRC15034) : 70-200

Bacillus subtilis (NBRC3134) : 70-350

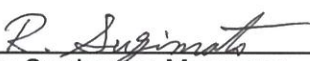
Klebsiella pneumoniae (NBRC14940) : 50-200

Pseudomonas aeruginosa (NBRC3899) : 70-350

Staphylococcus aureus (ATCC25923) : 50-200

Enterococcus faecalis (NBRC100482) : 70-200

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197300aa-Eaa
SA2206-0216

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS**Easy Plate AC**

Product code :61973

Lot No.: AC20220330A

Expiry date: Sep. 29, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	* See below
Spreading time	passed test	$\leq$ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	$\leq$ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

*The ratio of the average colony count on the product to the plate count agar(%).

Escherichia coli (NBRC15034) : 70-200

Bacillus subtilis (NBRC3134) : 70-350

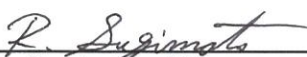
Klebsiella pneumoniae (NBRC14940) : 50-200

Pseudomonas aeruginosa (NBRC3899) : 70-350

Staphylococcus aureus (ATCC25923) : 50-200

Enterococcus faecalis (NBRC100482) : 70-200

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197300aa-Eaa
SA2206-0217

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate CC

Product code :61974

Lot No.: CC20220225A

Expiry date: Aug. 24, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Escherichia coli (NBRC15034) : 70-200*

Klebsiella pneumoniae(NBRC14940) : 50-200*

Enterobacter cloacae (NBRC13536) : 50-200*

Citrobacter freundii (NBRC12681) : 50-200*

Staphylococcus aureus (ATCC25923) : No growth

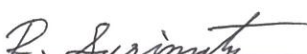
Enterococcus faecalis (NBRC100482) : No growth

Proteus mirabilis (NBRC105697) : No growth

Staphylococcus xylosus (NBRC109770) : No growth

*The ratio of the average colony count on the product to the VRB agar medium(%).

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197400aa-Eab
SA2206-0201

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate CC

Product code :61974

Lot No.: CC20220318A

Expiry date: Sep. 17, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Escherichia coli (NBRC15034) : 70-200*

Klebsiella pneumoniae(NBRC14940) : 50-200*

Enterobacter cloacae (NBRC13536) : 50-200*

Citrobacter freundii (NBRC12681) : 50-200*

Staphylococcus aureus (ATCC25923) : No growth

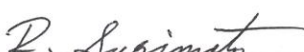
Enterococcus faecalis (NBRC100482) : No growth

Proteus mirabilis (NBRC105697) : No growth

Staphylococcus xylosus (NBRC109770) : No growth

*The ratio of the average colony count on the product to the VRB agar medium(%).

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197400aa-Eab
SA2206-0202

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate EC

Product code :61975

Lot No.: EC20220328A

Expiry date: Sep. 27, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Escherichia coli (NBRC15034) : 70-200^{*}

Klebsiella pneumoniae(NBRC14940) : 50-200^{*}

Enterobacter cloacae (NBRC13536) : 50-200^{*}

Citrobacter freundii (NBRC12681) : 50-200^{*}

Staphylococcus aureus (ATCC25923) : No growth

Enterococcus faecalis (NBRC100482) : No growth

Proteus mirabilis (NBRC105697) : No growth

Staphylococcus xylosus (NBRC109770) : No growth

^{*}The ratio of the average colony count on the product to the VRB agar medium(%).

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197500aa-Eab
SA2206-0203

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate EC

Product code :61975

Lot No.: EC20220329A

Expiry date: Sep. 28, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Escherichia coli (NBRC15034) : 70-200*

Klebsiella pneumoniae(NBRC14940) : 50-200*

Enterobacter cloacae (NBRC13536) : 50-200*

Citrobacter freundii (NBRC12681) : 50-200*

Staphylococcus aureus (ATCC25923) : No growth

Enterococcus faecalis (NBRC100482) : No growth

Proteus mirabilis (NBRC105697) : No growth

Staphylococcus xylosus (NBRC109770) : No growth

*The ratio of the average colony count on the product to the VRB agar medium(%).

Storage condition : 2-8°C


Ryosuke Sugimoto, Manager

Date Jun. 22, 2022

KBG6197500aa-Eab
SA2206-0204

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate SA

Product code :61976

Lot No.: SA20220317A

Expiry date: Mar. 16, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Staphylococcus aureus (ATCC25923) : 50-200 (as blue colony)^{*1}

Staphylococcus aureus (NBRC13276) : 50-200 (as blue colony)^{*1}

Enterococcus faecalis (NBRC100482) : No growth

Bacillus subtilis (NBRC3134) : No growth

Escherichia coli (NBRC15034) : No growth

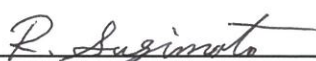
Proteus mirabilis (NBRC105697) : No growth

Bacillus licheniformis (NBRC12200) : Growth as pink colony

Staphylococcus epidermidis (NBRC100911) : ≤ 10 and no growth as blue colony^{*2}
^{*1}The ratio of the average colony count on the product to the plate count agar (%).

^{*2}The ratio of the average colony count on the product to Easy Plate AC (%).

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197600aa-Eab
SA2206-0205

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Easy Plate SA

Product code :61976

Lot No.: SA20220317B

Expiry date: Mar. 16, 2023

<u>TEST PARAMETER</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Performance test	passed test	See below
Spreading time	passed test	≤ 60 sec
Gelling of medium	passed test	Gelling within 3 min
Curl of the base sheet	passed test	≤ 4 mm
Appearance of culture area	passed test	Light yellow
Scanning of QR code	passed test	Passed

Performance test

Staphylococcus aureus (ATCC25923) : 50-200 (as blue colony)^{*1}

Staphylococcus aureus (NBRC13276) : 50-200 (as blue colony)^{*1}

Enterococcus faecalis (NBRC100482) : No growth

Bacillus subtilis (NBRC3134) : No growth

Escherichia coli (NBRC15034) : No growth

Proteus mirabilis (NBRC105697) : No growth

Bacillus licheniformis (NBRC12200) : Growth as pink colony

Staphylococcus epidermidis (NBRC100911) : ≤ 10 and no growth as blue colony^{*2}
^{*1}The ratio of the average colony count on the product to the plate count agar (%).

^{*2}The ratio of the average colony count on the product to Easy Plate AC (%).

Storage condition : 2-8°C


Ryosuke Sugimoto; Manager

Date Jun. 22, 2022

KBG6197600aa-Eab
SA2206-0200

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

CERTIFICATE OF ANALYSIS

Product code (Kikkoman): 61239

Product name: **Lumitester Smart**

Serial Number: 2144053130044S

DATA

Counts for reference light source: 9,995 RLU
(Std.: within 10,000 $\pm$ 500 RLU)

Dark counts: 2 RLU
(Std.: within $\pm$ 10 RLU)

Date: Jun.22.2022

Signature: H Katayama

Hiroshi Katayama; Manager

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

KBG61234(0)-Eaa
SA2206091

CERTIFICATE OF ANALYSISProduct code (Kikkoman): 61239Product name: **Lumitester Smart**Serial Number: 2144053130045S**DATA**

Counts for reference light source: 9,987 RLU
(Std.: within 10,000 $\pm$ 500 RLU)

Dark counts: 0 RLU
(Std.: within $\pm$ 10 RLU)

Date: Jun.22.2022Signature: H KatayamaHiroshi Katayama; Manager

Quality Assurance Group, Edogawa
Quality Unit
Kikkoman Biochemifa Company

KBG61234(0)-Eaa
SA2206092