

Certificate of Analysis

Predictor® hERG Fluorescence Polarization Assay Kit , 1 Kit



Part Number: PV5365

Lot Number: 3251402

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way
Carlsbad, CA 92008
Phone: 760.603.7200
www.thermofisher.com

Components:

Description	Composition	Quantity	Part Number	Lot Number
Predictor® hERG Membrane	Predictor® hERG Membrane in proprietary buffer (pH 7.5) containing 0.05% Pluoronic F-127.	5 mL	K1785*	3109394
Predictor® hERG Tracer Red	DMSO	40 µL	PV5363	3048882B
Predictor® hERG FP Assay Buffer	Proprietary buffer (pH 7.5) containing 0.05% Pluoronic F-127.	20 mL	PV5364	3102050A
E-4031	Water	80 µL	PV5366	3062987A

*See individual COA

Storage and Handling: The performance of this product is guaranteed for 6 months from the date of purchase if stored and handled properly.

Description	Storage and Handling
Predictor® hERG Membrane	-80°C. Thaw at room temperature. Never use a water bath with antifungal reagents. Upon thaw, mix by pipetting up and down ~20X. If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.
Predictor® hERG Tracer Red	-20°C. Light sensitive, DMSO, never place in plastic.
Predictor® hERG FP Assay Buffer	Room Temperature. Mix before use.
E-4031	-20°C. Known hERG blocker compound.

QUALITY ASSURANCE

Functional Testing:

Kit components are functionally tested for performance in the Predictor® hERG Fluorescence Polarization Assay using a titration E4031.

Assay Specifications:

Using the conditions described in the kit protocol and keeping the plates in the dark and covered to prevent evaporation this kit has the following specification(s):

	Values
E-4031 IC ₅₀	9.5 – 95 nM
Assay ΔmP	≥ 120
Assay Z'	≥ 0.6

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Predictor® is a registered trademark of Life Technologies Corporation.

Certificate of Analysis

Predictor® hERG Membrane, 5 mL

ThermoFisher
SCIENTIFIC

Part Number: K1785

Lot Number: 3109394

Immediate Storage: -80°C

Shipping Conditions: dry ice

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Carlsbad, CA 92008

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Description:

Predictor® hERG Membrane for use in the Predictor® hERG Fluorescence Polarization Assay Kit which is designed to perform hERG channel biochemical binding studies in the absence of radioligand.

Manufacturing:

Manufactured under ISO 9001 certification at Life Technologies in Madison, WI, USA.

Storage and Handling:

-80°C. Thaw at room temperature. **Never use a water bath with antifungal reagents.** Upon thaw, mix by pipetting up and down ~20X. If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

25 mM Hepes (pH 7.5), 15 mM KCl, 1 mM MgCl₂, 0.05% Pluronic F-127.

Biosafety Level: 1

Instrument Settings:

Predictor® hERG Membrane requires a fluorescence plate reader capable of doing Fluorescence Polarization and filters in the red range. For instrument specific set-up information go to www.invitrogen.com/instrumentsetup.

QUALITY ASSURANCE

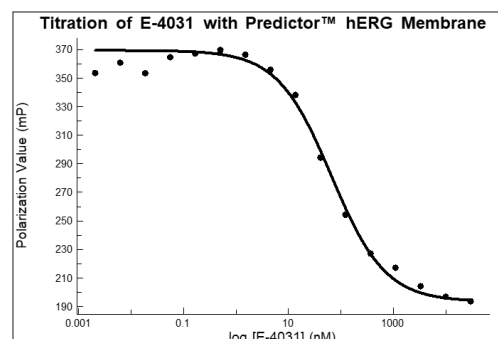
Specifications:

E-4031 IC₅₀: Range: 9.5 - 95 nM

Assay ΔmP: Range: ≥ 120 mP

Assay Z': Range: ≥ 0.6

Lot Specific Determinations:



Each lot of Predictor™ hERG membrane is qualified using the concentrations recommended in the customer protocol, 1X Predictor™ hERG membrane and 1 nM Predictor™ hERG Tracer in a titration of E-4031. Following an incubation of 4 - 6 hours, the plate was read, the polarization values calculated and the IC₅₀ curve and specification values were determined.

E-4031 IC₅₀ lot specific value: 65.7 nM

Assay ΔmP lot specific value: 182 mP

Assay Z' lot specific value: 0.75

Chevoyn Joseph, Director, Quality

Date: 28/Mar/2025

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For questions, please contact our Technical Support Team

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