

O°

User Guide

Lipid Standard O

Lipid Standard for Lipid Quantification

Cat LP02

Version 1.0

Contents

Product Components	. 3
Storage	3
Equipment and materials required but not supplied with this kit	3
ntroduction and assay principle	. 3
Procedure	4
A. Standard Preparation	4
Purchaser Notification	. 6

Lipid Standard

Product Components

LP02 Lipid Standard

- 1 x Lipid Standard, 1 mg
- 1 x User Guide

Storage

Store all components at 4°C. Lipid Standard has a shelf life of 12 months from manufacture.

Please note that the lipid quantification reagent is light-sensitive and should be protected from light until use.

Equipment and materials required but not supplied with this kit

- Ultra Pure Water
- Vortex

Introduction and assay principle

The standard could be used in a reliable colorimetric assay using a plate reader such as in LipoQ but it is not limited to this and can be used in any format requiring a lipid standard curve.

Each tube of Lipid Standard provides 1mg of dried Dipalmitoylphosphatidylcholine (DOPC Lipid).

Procedure

Please note: Sulfuric acid is highly corrosive and can damage certain types of plastics. Avoid using plastics that are sensitive to sulfuric acid, and test plastics prior to attempting this assay by adding 100 μ L of 18M sulfuric acid and heating to 90°C for 10 minutes. Sulfuric acid should be handled with care (see MSDS). Gloves, a lab coat, and protective eyewear should be worn during handling. Sulfuric acid should be stored in glassware only and pipetted in a fume hood.

A. Standard Preparation

- 1. Add 250 µL deionised water to the dried Lipid Standard powder.
- 2. Ensure the cap is tightly fastened. Vortex intensively for 2 minutes at max speed.
- 3. Using a bath sonicator, sonicate at 35 kHz and 45°C for 10 minutes.
- 4. Ensure the cap is tightly fastened. Vortex intensively for 2 minutes.
- 5. Prior to assay, form a dilution series of 16 μ g 0.25 μ g. See table 1 below.

Lipid standard is stable at 4°C for at least three months once reconstituted. Intensive vortexing is required prior to the use of the lipid standard.

Tube number	Lipid standard (µL)	Diluted in PBS (µL)	Lipid standard concentration (500 µL solution)
1	1 mg (resuspended in 250 μL deionised water)	0	4 mg/ml
2	2 µL of Tube #1	498	16 µg/ml
3	250 μL of Tube #2	250	8 µg/ml
4	250 µL of Tube #3	250	4 µg/ml
5	250 μL of Tube #4	250	2 µg/ml
6	250 μL of Tube #5	250	1 µg/ml
7	250 μL of Tube #6	250	0.5 µg/ml
8	250 µL of Tube #7	250	0.25 μg/ml

Table 1. Lipid standard preparation.



Graph 1. Standard curve produced using LipoQ[™] lipid quantification reagent upon the lipid standard supplied with the kit.

Purchaser Notification

Limited warranty Cell Guidance Systems and/or its affiliate(s) warrant their products as set forth in the Terms of Sale found on the Cell Guidance Systems web site at www.cellgs.com/Pages/Terms_and_Conditions.html

If you have any questions, please contact Cell Guidance Systems.

This product incorporates licensed technologies. The purchase of this product conveys to the purchaser the limited, nontransferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed. This product is for internal research purposes only and is not for use in commercial services of any kind, including, without limitation, reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact info@cellgs.com.

CELL GUIDANCE SYSTEMS AND/OR ITS AFFILIATE(S) DISCLAIM ALL WARRANTIES WITH RESPECT TO THIS DOCUMENT, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. TO THE EXTENT ALLOWED BY LAW, IN NO EVENT SHALL CELL GUIDANCE SYSTEMS AND/OR ITS AFFILIATE(S) BE LIABLE, WHETHER IN CONTRACT, TORT, WARRANTY, OR UNDER ANY STATUTE OR ON ANY OTHER BASIS FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING BUT NOT LIMITED TO THE USE THEREOF.

© 2013-2022 Cell Guidance Systems. All rights reserved. The trademarks mentioned herein are the property of Cell Guidance Systems or their respective owners.

USER GUIDE

Cell Guidance Systems' reagents and services enable control, manipulation and monitoring of the cell, both *in vitro* and *in vivo*.

Growth Factors

- Recombinant
- PODS[®] Sustained Release

Exosomes

- Purification
- Detection
- Purified Exosomes
- NTA Service

Cytogenetics

- Karyotype Analysis
- Array Hybridization

Defined Surfaces and ECMs

- PeptiGels[®]
- Matrigen Softwell[®]
 Matrix Proteins
- Other research products and services
- Primary Human Hepatocytes
- Small Molecules
- Cell Counting Reagent
- Lipid Quantification Assay







General info@cellgs.com Technical Enquiries tech@cellgs.com Orders order@cellgs.com

www.cellgs.com

EUROPE

Cell Guidance Systems Ltd Maia Building Babraham Bioscience Campus Cambridge CB22 3AT United Kingdom T +44 (0) 1223 967316 F +44 (0) 1223 750186

USA

Cell Guidance Systems LLC Helix Center 1100 Corporate Square Drive St. Louis MO 63132 USA T 760 450 4304 F 314 485 5424