

# Q-PLEX™ HUMAN MALARIA (5-PLEX)



The Q-Plex™ Human Malaria (5-Plex) is a fully quantitative chemiluminescent assay enabling concurrent measurement of Malaria biomarkers.

The Q-Plex™ Human Malaria (5-plex) is a robust and fully quantitative chemiluminescent assay for the concurrent surveillance of four malaria biomarkers. The assay simultaneously measures HRP2, LDH-Pan, LDH-Pv, LDH-Pf, and one host biomarker, CRP. The monitoring of subclinical Malaria infections and prevalence of HRP2/3-deletions is achieved by the coupling of a highly sensitive commercially available HPR2 assay with LDH detection. Validated protocols for whole blood samples are in place, with protocols for dry blood spots in development.

Each kit, manufactured in our ISO13485 registered facility, contains a 96-well plate and all other reagents necessary to perform the assay. The individual wells of the plate are precisely and reproducibly arrayed with each of the five biomarkers for accurate results.

In 3.5 hours, each kit will report quantities of the four malaria biomarkers and CRP present in 80 samples. This is achieved while only using 15 µL of whole blood per sample. The Q-Plex Malaria kit is a result of Quansys' commitment to support ongoing efforts to eradicate Malaria in developing countries.

**PATH**

The Q-Plex Malaria kit was developed in partnership with PATH.



Representative data demonstrating typical sample results and reproducibility (samples are run in duplicates in each row)

## Example Performance and Validation Data

Analyte	Assay Type	Calibrator Range	Upper Limit of Quantification (ULOQ)	Lower Limit of Quantification (LLOQ)	Limit of Detection	Precision* (Inter-assay)	Precision* (Intra-assay)	Average* Linearity
CRP	Competitive	44,500 - 10.86 (ng/mL)	11,125 (ng/mL)	60 (ng/mL)	5.43 (ng/mL)	10%	6%	102%
HRP2	Sandwich	2,700 - 0.66 (pg/mL)	675 (pg/mL)	0.92 (pg/mL)	0.33 (pg/mL)	10%	6%	112%
LDH-Pan	Sandwich	75,000 - 18.31 (pg/mL)	18,750 (pg/mL)	24 (pg/mL)	9.16 (pg/mL)	14%	8%	106%
LDH-Pf	Sandwich	23,000 - 5.62 (pg/mL)	5,750 (pg/mL)	8 (pg/mL)	2.81 (pg/mL)	13%	6%	106%
LDH-Pv	Sandwich	20,000 - 4.88 (pg/mL)	5,000 (pg/mL)	6 (pg/mL)	2.44 (pg/mL)	13%	7%	108%

\* Actual values may vary from kit to kit. Please see the In-Kit Certificate of Analysis included in your kit for specific values.



**Quansys Biosciences**  
 365 North 600 West  
 Logan, UT 84321  
 www.quansysbio.com

Fax: 435-750-6869  
 Phone: 435-752-0531  
 Toll Free: 888-QUANSYS (782-6797)



Quansys is an ISO 9001:2015 and ISO 13485:2016 registered company and complies with GMP. Products are designed, developed, and manufactured according to the procedures outlined in our Quality Management System.

©2024 Quansys Biosciences Inc. All rights reserved. Q-View and Q-Plex are Trademarks of Quansys Biosciences Inc. ISO is a trademark of the International Standards Organization. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.