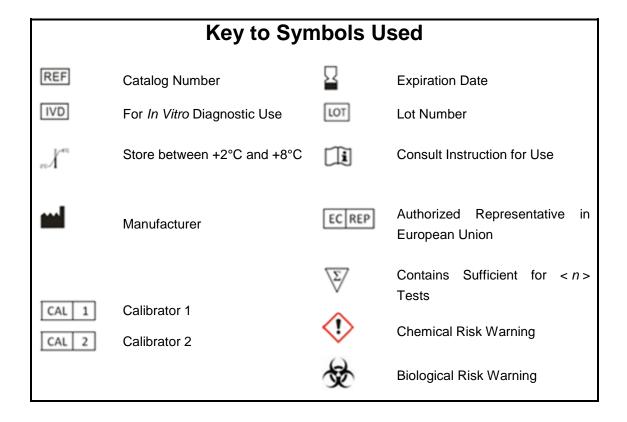
BioCLIA[®] Autoimmune Calibrator Set

Jo-1

Jo-1 Assay Calibrators



BioCLIA® Autoimmune Calibrator Set,Jo-1

Intended Use

The BioCLIA Autoimmune Calibrator Set, Jo-1 is intended for the calibration of the BioCLIA Jo-1 performed on the BioCLIA® 1200 and BioCLIA® 6500.

Catalog Numbers

MY00204 (2 X 1 mL) MY00255 (4 X 1 mL)

Summary and Principles of the Procedure

Anti-nuclear antibody (ANA) is a class of auto-antibodies with different binding affinities specific to different nuclear antigens. Generally, ANAs include extractable nuclear antigen (ENA) antibodies and un-extractable nuclear antigen antibodies.

Determination of ANA has significant correlation to the diagnosis of Sharp syndrome (MCTD), systemic lupus erythematosus (SLE), sjogren's syndrome, progressive systemic sclerosis, polymyositis/dermatomyositis, overlap syndrome, and limited types of progressive systemic sclerosis (CREST syndrome).

Jo-1 is a 50 kDa cytoplasm phosphoprotein, the same component to histidyl-tRNA synthetase. It plays an important role in transporting free histidine to the corresponding tRNA and translating peptide from mRNA templates. ²

Anti-Jo-1 antibodies are commonly seen in polymyositis (PM) patients' sera with the sensitivity about 40% $^{\sim}$ 50%, 25% in PM/DM (dermatomyositis) patients, less than 10% in DM patients, and not detected in other autoimmune disease patients. The sensitivity of anti-Jo-1 antibodies can be as high as 85% for the group who suffered PM and scleroderma, 25% for the ones with progressive systemic sclerosis (PSS)/PM and 60% for the PM ones with pulmonary fibrosis. 3,4

Materials supplied

• Jo-1 Calibrator 1 A tube contains 1mL, ready to use reagent. Control contains human antibodies to Jo-1 in stabilizers and preservatives.

Preservatives: 0.0015% < Proclin 300 < 0.6% Do-1 CAL 1

• **Jo-1 Calibrator 2** A tube contains 1mL, ready to use reagent. Control contains human antibodies to Jo-1 in stabilizers and preservatives.

Preservatives: 0.0015% < Proclin 300 < 0.6% Jo-1 CAL 2

Target value information is indicated in the 2D barcode localized in each kit.

Warnings and Precautions

The human derived material in this product was tested by FDA approved methods and found nonreactive for Hepatitis B Surface Antigen (HBsAg), Anti-HCV and HIV 1/2 antibodies. Handle as if potentially infectious. ⁵ Avoid contacting with skin and eyes. Do not empty into drains. Wear suitable

protective clothing.

Precautions:



Human serum is added in the calibrators.



Proclin 300 is added in the calibrators at concentration between 0.0015% - 0.6%.

- The product is for in vitro diagnostic use only.
- Do not use any calibrators beyond their expiration dates. Do not mix calibrators from different lots unless specified.
- Instructions must be carefully followed for using and storing of calibrators. Any modification in procedure may interfere with the results. Calibrators and contaminated vials must be handled strictly following safety guidelines or rules of biological hazards to ensure the users' and environmental safety.
- Calibrators contain chemical and biological components. Avoid ingesting or splashing onto skin and mucous membrane. If direct contact with calibrators happens, rinse immediately the contact surface with plenty of water and see a doctor if necessary.

Storage Conditions

The kit is stable until the expiration date, if stored and handled as directed. Routinely store the kit in refrigerator (2-8°C). Once a calibrator tube is opened, it is good for a total of 15 times, no more than 2 hours per time when kept uncapped, onboard the instrument, after which the reagent must be discarded. Three freeze-thaw cycles before testing has no effect on the kit reagents.

Assay Procedure

Note that, for obtaining optimal performance, it is important to perform all routine maintenance procedures as defined in the BioCLIA® 1200 and BioCLIA® 6500 User Manual.

See the BioCLIA® 1200 and BioCLIA® 6500 User Manual for preparation, setup, dilutions, adjustment, assay and quality control procedures.

Traceability

The reported values were determined over multiple runs on the BioCLIA® 1200 and BioCLIA® 1200 using specific lots of reagents against an in-house standard. Jo-1 results are reported in RU/mL which is interpreted from relative light unit (RLU). Method comparison test showed good sensitivity and specificity of tested assay.

Limitations

This product is designed as calibrators for monitoring the performance of the BioCLIA Jo-1. These calibrators are subjected to the limitations of

the assay system. Deviations may indicate problems with one or more components in the test system.

References

- 1. Tan EM. Autoantibodies to nuclear antigens (ANA): their immunobiology and medicine. Advances in Immunology 1982;33:167-240.
- 2. Damoiseaux J, Tervaert JC. From ANA to ENA: how to proceed? Autoimmunity reviews 2006;5:10-17.
- 3. Autoantibodies in the diagnosis of systemicrheumatic diseases. Seminars in arthritis and rheumatism; 1995. Elsevier.
- 4. Lyons R, Narain S, Nichols C, Satoh M, Reeves WH. Effective use of autoantibody tests in the diagnosis of systemic autoimmune disease. Annals of the New York Academy of Sciences 2005;1050:217-28.
- 5. Richmond JY, Mckinney RW. Biosafety in microbiological and biomedical laboratories: U.S.GPO. 1999.







HOB Biotech Group Co., Ltd

C6 Building, No. 218 Xinghu Road, Suzhou Industrial Park,

Suzhou, Jiangsu, 215123, China

REGISTRANT/MANUFACTURE: HOB Biotech Group

Co., Ltd

ADDRESS/LOCATION:

C6 Building, No. 218 Xinghu Road, Suzhou Industrial

Park, Suzhou, Jiangsu, 215123 China

CONTACT INFORMATION: TEL (+86)512-69561996

Fax (+86)512-62956652

WEBSITE: www.hob-biotech.com

CUSTOMER SERVICE: HOB Biotech Group Co., Ltd **CUSTOMER SERVICE CONTACT:** TEL (+86)4008601202



EUROPE REPRESENTATIVE: Emergo Europe

ADDRESS/LOCATION:

Prinsessegracht 20, 2514 AP The Hague, The

Netherlands

Technical Assistance

For technical assistance, contact your National Distributor.

17th April 2019

Revision 9