RF-Absorbent

To be used with Infectious disease IgM ELISAs.

REF  KIRF561

Σ  3 mL

_heroes

2-8°C

EU:  IVD  CE  u.s.:  For research use only.

Not for use in diagnostic procedures.

IBL INTERNATIONAL GMBH
Flughafenstrasse 52a  Phone: +49 (0)40-53 28 91-0  IBL@IBL-International.com
D-22335 Hamburg, Germany  Fax: +49 (0)40-53 28 91-11  www.IBL-International.com
Pretreatment with RF-Absorbent

In order to avoid interferences of specific IgG and rheumatoid factors, patient sera should be treated with RF-Absorbent (REF KIRF561).

Do not treat standards and controls with RF-Absorbent!

For sample pretreatment with RF-Absorbent exist two variants:

A) Dilution of RF-Absorbent in Buffer

The volumes stated below are for one run with 4 strips (32 determinations).

<table>
<thead>
<tr>
<th>Dilution</th>
<th>Relation</th>
<th>Remarks</th>
<th>Storage</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mL RF-Absorbent + 20 mL Diluent Buffer</td>
<td>1:21</td>
<td>Incubate ≥ 1 min (&lt; 20 min) at RT (18-25°C)</td>
<td>2-8°C</td>
<td>8 w</td>
</tr>
</tbody>
</table>

Sample dilution

<table>
<thead>
<tr>
<th>Sample</th>
<th>to be diluted with</th>
<th>Relation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum / Plasma</td>
<td>Diluent Buffer (+ RF-Absorbent)</td>
<td>1:101</td>
<td>z.B. 5 µL + 500 µL DILBUF</td>
</tr>
</tbody>
</table>

Samples with RF-Absorbent: Do not incubate > 20 min to avoid adsorption of specific antibodies. Pretreated samples may be turbid.

B) Direct addition of RF-Absorbent to the diluted sample

Sample dilution

<table>
<thead>
<tr>
<th>Sample</th>
<th>to be diluted with</th>
<th>Relation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum / Plasma</td>
<td>Diluent Buffer</td>
<td>1:101</td>
<td>z.B. 5 µL + 500 µL DILBUF</td>
</tr>
</tbody>
</table>

Addition of RF-Absorbent

<table>
<thead>
<tr>
<th>Sample treatment</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipette 20 µL of RF-Absorbent to 400 µL of 1:101 diluted sample.</td>
<td>Mix well.</td>
</tr>
<tr>
<td></td>
<td>Incubate ≥ 1 min (&lt; 20 min) at RT (18-25°C).</td>
</tr>
</tbody>
</table>

Samples with RF-Absorbent: Do not incubate > 20 min to avoid adsorption of specific antibodies. Pretreated samples may be turbid.
Symbols / Symbole / Symbôles / Símbolos / Σύμβολα

<table>
<thead>
<tr>
<th>REF</th>
<th>Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lote N.º: / Lotto n.: / Αριθμός-Κατ.:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>LOT</th>
<th>Use by: / Verwendbar bis: / Utiliser à: / Usado por: / Usar até: / Da utilizzare entro: / Χρησιμοποιείται από:</th>
</tr>
</thead>
</table>

|------|---------------------------------------------------------------------------------------------------------------------------------|

<table>
<thead>
<tr>
<th>LYO</th>
<th>Concentrate / Konzentrat / Concentré / Concentrar / Concentrado / Concentrato / Συμπύκνωμα</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>IVD</th>
<th>Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizzato / Λυοφιλιασµένο</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>In Vitro Diagnostic Medical Device. / Appareil Médical pour Diagnostics In Vivo. / Dispositivo Médico para Diagnóstico In Vitro. / Equipamento Médico de Diagnóstico In Vivo. / Ειδικευτική εξέταση για In Vitro Διάγνωση.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Evaluation kit. / Kit für Leistungsbewertungszwecke. / Kit pour évaluation. / Juego de Reactivos para Evaluación. / Kit di valutazione. / Κιτ Αξιολόγησης.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Read instructions before use. / Arbeitsanleitung lesen. / Lire la fiche technique avant emploi. / Lea las instrucciones antes de usar. / Leggere le istruzioni prima dell’uso. / Διαβάστε τις οδηγίες πριν την χρήση.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Keep away from heat or direct sun light. / Vor Hitze und direkter Sonneneinstrahlung schützen. / Garder à l’abri de la chaleur et de toute exposition lumineuse. / Manténgase alejado del calor o la luz solar directa. / Manter longe do calor ou luz solar directa. / Να φυλάσσεται μακριά από θερμότητα και άμεση επαφή με το φως του ηλίου.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Store at: / Lager bei: / Stocker à: / Almacene a: / Armazenar a: / Conservare a: / Αποθήκευση στους:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbricante: / Παραγωγός:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SYMBOLS</th>
<th>Caution! / Vorsicht! / Attention! / ¡Precaución! / Cuidado! / Attenzione! / Προσοχή!</th>
</tr>
</thead>
</table>

Symbols of the kit components see MATERIALS SUPPLIED.
Die Symbole der Komponenten sind im Kapitel KOMPONENTEN DES KITS beschrieben.
Voir MATERIEL FOURNI pour les symbôles des composants du kit.
Símbolos de los componentes del juego de reactivos, vea MATERIALES SUMINISTRADOS.
Para símbolos dos componentes do kit ver MATERIAIS FORNECIDOS.
Per i simboli dei componenti del kit si veda COMPONENTI DEL KIT.
Για τα σύμβολα των συστατικών του κιτ συμβουλευτείτε το ΠΑΡΕΧΟΜΕΝΑ ΥΛΙΚΑ.

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**IBL AFFILIATES WORLDWIDE**

<table>
<thead>
<tr>
<th>IBL International GmbH</th>
<th>Tel.: + 49 (0) 40 532891 -0 Fax: -11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flughafenstr. 52A, 22335 Hamburg, Germany</td>
<td>E-MAIL: <a href="mailto:IBL@IBL-International.com">IBL@IBL-International.com</a> WEB: <a href="http://www.IBL-International.com">http://www.IBL-International.com</a></td>
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<tr>
<th>IBL International B.V.</th>
<th>Tel.: + 49 (0) 40 532891 -0 Fax: -11</th>
</tr>
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<tbody>
<tr>
<td>Zutphenseweg 55, 7418 AH Deventer, The Netherlands</td>
<td>E-MAIL: <a href="mailto:IBL@IBL-International.com">IBL@IBL-International.com</a> WEB: <a href="http://www.IBL-International.com">http://www.IBL-International.com</a></td>
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</tbody>
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<thead>
<tr>
<th>IBL International Corp.</th>
<th>Tel.: +1 (416) 645 -1703 Fax: -1704</th>
</tr>
</thead>
<tbody>
<tr>
<td>194 Wildcat Road, Toronto, Ontario M3J 2N5, Canada</td>
<td>E-MAIL: <a href="mailto:Sales@IBL-International.com">Sales@IBL-International.com</a> WEB: <a href="http://www.IBL-International.com">http://www.IBL-International.com</a></td>
</tr>
</tbody>
</table>

**LIABILITY:** Complaints will only be accepted in written and if all details of the test performance and results are included (complaint form available from IBL or supplier). Any modification of the test procedure or exchange or mixing of components of different lots could negatively affect the results. These cases invalidate any claim for replacement. Regardless, in the event of any claim, the manufacturer’s liability is not to exceed the value of the test kit. Any damage caused to the kit during transportation is not subject to the liability of the manufacturer.

Symbols Version 3.5 / 2010-11-01
RF-Adsorbent

RE59059  1 mL
KIRF561  3mL
KIRF571  5mL
KEZZ743  10 mL
KEZZ745  50 mL
KEZZ749  100 mL
1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
  - Trade name: RF-Adsorbent
- **Article number:**
  - RE59059 (1mL)
  - KIRF561 (3.0mL)
  - KIRF571 (5.0mL)
  - KEZZ743 (10 mL)
  - KEZZ745 (50 mL)
  - KEZZ749 (100 mL)
- **Application of the substance / the preparation:**
  - Laboratory chemicals
  - laboratory reagent / Immunoassay
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - IBL International GmbH
    - Flughafenstr. 52 a
    - D-22335 Hamburg
    - Tel.: ++49-40-53 28 91-0
    - Fax.: ++49-40-53 28 91-11
    - E-Mail: IBL@IBL-International.com
    - http://www.IBL-International.com
  - **Further information obtainable from:** Safety Representative
  - **Emergency telephone number:** ++49-40-53 28 91-0

2 Hazards identification

- **Classification of the substance or mixture**
  - The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**
  - No special remarkable hazards. Please observe the informations given in this safety data sheet.
- **Classification system:**
  - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
  - **Hazard-determining components of labelling:** Void
- **Labelling according to EU guidelines:**
  - Observe the general safety regulations when handling chemicals
  - The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - PBT: Not applicable.
    - vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures Preparation**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**
  - 54-64-8 Thiomersal
    - T+ R26/27/28 R35
    - H300; H310; H330; H373 < 0,01%
4 First aid measures

- Description of first aid measures
  - General information No special measures required.
  - After inhalation Supply fresh air; consult doctor in case of complaints.
  - After skin contact Generally the product does not irritate the skin.
  - After eye contact Rinse opened eye for several minutes under running water.
  - After swallowing If symptoms persist consult doctor.
  - Information for doctor
    - Most important symptoms and effects, both acute and delayed No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed
      - No further relevant information available.

5 Firefighting measures

- Extinguishing media
  - Suitable extinguishing agents
    - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions:
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Absorb with liquid-binding material.

- Reference to other sections
  - No dangerous substances are released.
  - See Section 7 for information on safe handling
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling
  - Precautions for safe handling No special measures required.

- Information about fire - and explosion protection: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.
  - Specific end use(s) No further relevant information available.
8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be
  monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

- Exposure controls
- Personal protective equipment
- General protective and hygienic measures
  The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands:
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/
  the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the
  degradation
- Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality
  and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the
  resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the
  application.
  The quality of the protective gloves must be chosen as a function of the specific working place concentration
  and quantity of hazardous substances.
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Penetration time of glove material
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
  observed.
- Eye protection: Goggles recommended during refilling.
- Body protection: lab coat

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  Form: liquid
  Colour: colorless
  Odour: Odourless
  Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  Melting point/Melting range: undetermined
  Boiling point/Boiling range: undetermined
- Flash point: Not applicable
- Ignition temperature:
  Decomposition temperature: Not determined.
Safety data sheet  
according to Regulation (EC). No. 1907/2006 (REACH)  
Printing date 22.03.2011  
Revision: 22.03.2011  
Version number 1

Trade name: RF-Adsorbent

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Fully miscible</td>
</tr>
<tr>
<td>Segregation coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content:</td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Solids content:</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
  - on the skin: No irritant effect known.
  - on the eye: No irritant effect known.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
12 Ecological information

- **Toxicity**
  - *Acquatic toxicity:* No further relevant information available.
  - *Persistence and degradability:* No further relevant information available.

- **Behaviour in environmental systems:**
  - *Bioaccumulative potential:* No further relevant information available.
  - *Mobility in soil:* No further relevant information available.

- **Additional ecological information:**
  - *General notes:* Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - *Results of PBT and vPvB assessment*
    - *PBT:* Not applicable.
    - *vPvB:* Not applicable.

- **Other adverse effects**
  No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Dispose of waste according to applicable local, state, and federal regulations.

- **Uncleaned packaging:**
  - **Recommendation:** Dispose of packaging according to applicable local, state, and federal regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
  - **ADR/RID class:** -
  - **Remarks:** No dangerous good in sense of this transport regulation.

- **Inland shipping ADN:**
  - **Remarks:** No dangerous good in sense of this transport regulation.

- **Maritime transport IMDG:**
  - **IMDG Class:** -
  - **Marine pollutant:** No
  - **Remarks:** No dangerous good in sense of this transport regulation.

- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** -
  - **Remarks:** No dangerous good in sense of this transport regulation.

- **UN "Model Regulation":** -

- **Special precautions for user** Not applicable.

- **Transport/Additional information:**
  Not dangerous according to the above specifications.
  This product is part of a kit. Information in this section refers to the kit as a whole.
  **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 6)
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Hazard-determining components of labelling: Void
- Labelling according to EU guidelines:
  Observe the general safety regulations when handling chemicals
  The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- National regulations
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H300 Fatal if swallowed.
  H310 Fatal in contact with skin.
  H330 Fatal if inhaled.
  H373 May cause damage to organs through prolonged or repeated exposure.
  R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
  R33 Danger of cumulative effects.
- Department issuing MSDS: Safety Representative
- Contact: IBL International
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  ICAO: International Civil Aviation Organization
  ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- * Data compared to the previous version altered.