

# AVITEX<sup>®</sup> RF Ref OD063/ OD013/ OD013/E

## Latex serology test for detection of Rheumatoid factor

Store at 2°C to 8°C. DO NOT FREEZE.  
For in-vitro diagnostic use only.

### INTRODUCTION AND INTENDED USE

AVITEX RF is a rapid latex agglutination test kit for the detection of Rheumatoid Factor (RF) in human serum.

RF is found in sera of patients with Rheumatoid Arthritis and is believed to be IgM antibodies directed against the patients own immunoglobulin G.

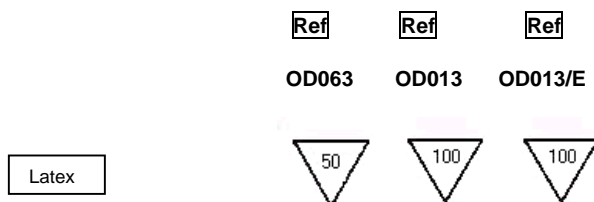
For professional use only.

### PRINCIPLE OF THE TEST

The AVITEX RF latex particles are coated with specially purified human gamma globulin, as described by Singer et al. When the latex suspension is mixed with serum containing elevated RF levels on a slide, clear agglutination is seen within 2 minutes.

AVITEX RF has a detection limit of 8 IU/ml of RF in the patient serum and the reagent is calibrated against the World Health Organisation (WHO) International Reference Preparation.

### CONTENTS



Suspension of Polystyrene latex particles ( approximately 1.25% ) coated with suitably modified Fc fraction of IgG in stabilising buffer. Working Strength.

<b>Control</b>	<b>+</b>	<b>0.5ml</b>	<b>0.5ml</b>	<b>N/A</b>
Positive Control. Serum containing Rheumatoid Factor antibodies. Working Strength.				

<b>Control</b>	<b>-</b>	<b>0.5ml</b>	<b>0.5ml</b>	<b>N/A</b>
Negative Control. Serum free of Rheumatoid Factor antibodies. Working Strength				

<b>STIRRERS</b>	<b>50</b>	<b>100</b>	<b>N/A</b>
<b>PLASTIC SLIDE</b>	<b>1</b>	<b>1</b>	<b>N/A</b>
<b>INSTRUCTION LEAFLET</b>	<b>1</b>	<b>1</b>	<b>1</b>

### MATERIAL REQUIRED BUT NOT PROVIDED

Micropipettes capable of dispensing 50 µl.  
Isotonic saline (0.9% NaCl)

### PRECAUTIONS

AVITEX RF reagents contain materials of human origin which have been tested and confirmed negative for HCV, HIV I and HIV II antibodies, and HBsAg by FDA approved procedures. Because no test can offer complete assurance that products derived from human source will not transmit infectious agents it is recommended that the reagents within this kit be handled with due care and attention during use and disposal. All reagents should, however, be treated as potential biohazards in use and for disposal. Do not ingest.

AVITEX RF reagents do not contain dangerous substances as defined by current UK Chemicals (Hazardous Information and Packaging for Supply) regulations. All reagents should, however, be treated as potential biohazards in use and disposal. Final disposal must be in accordance with local legislation.

AVITEX reagents contain 0.095% sodium azide as a preservative which may be toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive salts. On disposal, flush with large quantities of water.

### STORAGE

Reagents must be stored at temperatures between 2°C to 8°C.

The kit will perform within specification until the stated expiry date as determined from date of product manufacture and stated on kit and components. Expiry date is the last day of the month on the bottle and the kit label. Do not use reagents after the expiry date.

Exposure of reagents to excessive temperatures should be avoided. Do not expose to direct sunlight.

DO NOT FREEZE ANY OF THE REAGENTS as this will cause irreversible damage.

### SPECIMEN COLLECTION AND PREPARATION

Obtain a sample of venous blood from the patient and allow a clot to form and retract. Centrifuge clotted blood sample and collect clear serum. Fresh serum samples are required.

Do not use haemolysed, contaminated or lipaemic serum for testing as this will adversely affect the results.

Serum may be stored at 2°C to 8°C for up to 48 hours prior to testing. If longer storage is required, store at -20°C for up to 6 weeks. Thawed samples must be mixed prior to testing.

Do not repeatedly freeze-thaw the specimens as this will cause false results.

DO NOT DILUTE THE TEST SERA PRIOR TO USE IN THE QUALITATIVE TEST.

### REAGENT PREPARATION

All reagents should be brought to room temperature (20°C to 25°C) and mixed gently prior to use. Do not induce foaming.

The test slide should be thoroughly cleaned before use as traces of detergent or prior specimen may affect the result.

Recommended Cleaning procedure:

1. Used cards must be immediately immersed in a disinfectant solution. Follow disinfectant manufactures guidelines.
  2. The reaction circles must be physically rubbed with non-abrasive material to ensure removal of possible adhering particles.
  3. Thoroughly rinse in purified water.
  4. Allow reaction card to dry.
  5. Spray cards with a 70% alcohol solution.
- Allow the alcohol to evaporate prior to re-use.

### LIMITATIONS OF USE

The use of samples other than serum have not been validated in this test.

There is no reuse protocol for this product.

A low or suspected positive result should be re-assessed. Diagnosis should not be made solely on the findings of one clinical assay. When making an interpretation of the test it is strongly advised to take all clinical data into consideration.

RF tests are important in distinguishing between Rheumatoid Arthritis, Autoimmune and other inflammatory disease states. It should be noted that positive tests for RF are not given by every test with every case of clinically diagnosed Rheumatoid Arthritis.

Healthy individuals can give positive reactions in RF tests and the incidence is between 3-5% of the population. Positive reactions do occur in conditions such as infectious mononucleosis, syphilis, hepatitis and various other clinical conditions. These false positives normally give very low titres in the Quantitative test.

