

TUBERCULIN PPD

FOR IN VITRO TESTS



Product Use: Tuberculin PPD for in vitro tests is an immunological reagent for experimental evaluation of cellular immunity. For many years, it has been extensively used in studies of cellular interactions in regulating cellular immune responses.

The information given in this leaflet also in general applies to the sensitins for in vitro use produced from non-tuberculous mycobacteria and supplied by AJ Vaccines A/S.

Limitation on Use: The product should not, for reasons of regulatory requirements, be used for diagnostic purposes.

Preparation of Tuberculin PPD: PPD is produced from cultures of virulent *Mycobacterium tuberculosis*. Bacteria are grown as surface cultures on the synthetic classical sauton medium. Culture supernatants are heat-sterilized, filtered, concentrated with nominal cut off at 10 kDa and precipitated with trichloroacetic acid. The precipitate is delipidated and dried. PPD from several individual harvests are pooled to minimize variations between batches. The biological activities of the pools are controlled in the lymphocyte proliferation assay using cells from guinea pigs sensitized with *M. tuberculosis*.

General properties of Tuberculin PPD for in vitro test: PPD is primarily a mixture of proteins (>90%) with molecular mass > app. 10 kDa. Minor quantities of nucleic acids, lipoproteins and lipids are also present. The proteins are partly denatured because of the heat treatment, and will, if applied to an SDS-page gel, show a smear-like separation.

Tuberculin PPD for in vitro tests stimulates in a dose dependent way sensitized lymphocytes isolated from man or experimental animals. Stimulation is usually observed in the dose range from 0.1 to 100 µg/ml. Because tuberculin PPD is a B-cell mitogen, stimulation observed with high doses of PPD should be interpreted with caution. High doses of PPD are often less stimulatory than intermediate doses.

Formulation and handling of Tuberculin PPD for in vitro test: The product is supplied at a concentration of 1 mg/ml in an isotonic phosphate buffered saline at pH 7.38. The reagent, which is supplied in vials of 1 ml (art. no. 2390) or 10 ml (art. no. 2391), appears as a weak turbid, faint yellow solution. Minor precipitates, which may form during storage, are readily dissolved by shaking.

If kept sterile, the product is generally very stable during handling, but because PPD may adsorb to plastic and glass surfaces, dilutions for in vitro tests should be prepared shortly before use. Highly diluted solutions should not be stored.

Shelf life can be extended by storing frozen aliquots diluted in cell culture media or physiological PBS pH 7.4 at concentrations not less than 100 µg/ml.

Ordering info:

Art No.	Item
2390 (SS)	Tuberculin PPD for in vitro, 1 ml
2391 (SS)	Tuberculin PPD for in vitro, 10 ml