BioGenex

49026 Milmont Drive, Fremont, CA 94538
Tel : +1 (800) 421-4149, Fax: +1 (510) 824-1490,
support@biogenex.com

EC REP Emergo Europe, Molenstraat 15, NL-2513 BH The Hague, The Netherlands
Tel: (+31) 70-345-8570, Fax: (+31) 70-346-7299

DATA SHEET

Fast Red Substrate Pack
For Use with Alkaline Phosphatase Detection Kits or BioGenex Automated Staining Systems

HK180-5,7K **HK181-5,7K** **HK182-5K**

Doc. No. 932-HK180-F, Rev. No. D
Date of Release: 06-October, 2011

REAGENTS SUPPLIED
(Store at 2-8°C)

HK182-5K Fast Red Substrate Pack: (for manual procedures)	11 x 5 ml of naphthol phosphate substrate in Tris buffer with one filter tip per vial; 11 Fast Red chromogen tablets
Pack components are also available separately:	
Naphthol Phosphate Substrate (HK180-5K):	1 x 5 ml of naphthol phosphate substrate in Tris buffer
Naphthol Phosphate Substrate (HK180-7K):	1 x 15 ml of naphthol phosphate substrate in Tris buffer
Fast Red Tablets (HK181-5K):	6 Fast Red chromogen tablets with filter tips
Fast Red Tablets (HK181-7K):	11 Fast Red chromogen tablets (4-chloro-2-methyl-benzenediazonium salt)

PREPARATION & USE OF FAST RED CHROMOGEN

1. Allow the Fast Red tablet container(s) to reach room temperature (20-26°C) before opening. Each 5 ml of working solution is sufficient for staining up to 50 slides.
2. Dissolve one Fast Red tablet in the vial for every 5 ml of buffered Naphthol Phosphate Substrate and MIX WELL BY SHAKINGThe tablet should be completely dissolved before use. Use within 30 minutes of preparation.
3. For manual use only: attach filter tip (included) to the vial and apply the working solution through the filter tip. Filtering the solution after mixing eliminates chromogen precipitate.
4. For BioGenex Automated Staining Systems: preprogram the instrument to add the appropriate volume of working solution to cover the specimen according to tissue size or autostaining slide parameters. For use with manual procedures: add enough working solution (2-5 drops) to entirely cover the tissue section.
5. For BioGenex Automated Staining Systems, an incubation time has been offered with the factory protocol for each BioGenex antibody suitable for automation. When using the Open Mode (User-Defined Protocol) on the instruments, an appropriate incubation time needs to be determined by the user in a preliminary test by using the desired antibody and both known positive and known negative control tissues. It can be determined under the microscope when specific staining with desired intensity is developed on the known positive control tissue, while no non-specific background staining is observed on both control tissues. The same method can be used to determine the optimal incubation time for the manual procedure. The expected incubation time is 5-40 minutes. In most cases, color development will be completed in 30 minutes.
6. The working solution is stable for up to 8 hours at room temperature.

NOTES

1. To prevent most non-specific staining, wash the sections thoroughly between steps in two changes of Phosphate Buffered Saline (PBS), pH 7.6, for five minutes each, especially immediately prior to application of the chromogen.
2. Avoid contact with working solution.
3. When using Fast Red chromogen, do not expose the section to organic solvents such as xylene for counterstaining, dehydration or mounting because the reaction product is soluble in organic solvents.
4. Use an aqueous counterstain (eg. Mayer's Hematoxylin) and an aqueous mounting medium such as BioGenex Aqueous Mounting Medium (HK099) or SuperMount® mounting medium (HK079).