CURRENT

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Title: Estimation of Alkaline Phosphatase (ALP) in blood serum samples on minichem ARK Diagnostics
SOP No.: Biochemistry 4/02
Date first effective: 01st January2025 **Review date:** 31stDecember 2025
Department of Clinical Pharmacology, 1st Floor, New MS Building,
Seth GS Medical College & KEM Hospital, Parel, Mumbai 400012

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Author: Vaishali Hadikar
Laboratory Technician

Signature with date: Hadikar 31/Dec/2024

Lab In charge: Dr. Sheetal Kudtarkar
Project Scientist

Signature with date: Kudtarkar 31/Dec/24

Reviewer: Dr. Mahesh Belhekar
Associate Professor

Signature with date Bel 31/Dec/2024

Dr. Mahesh N. Belhekar
Associate Professor
Department of Clinical Pharmacology
New MS Building, First Floor,
Seth GS Medical College and KEM Hospital
Acharya Donde Marg, Parel,
Mumbai - 400 012. India

Approved by: Dr. Nithya Gogtay
Professor and Head

Signature with date: 31/12/24

Dr. Nithya Gogtay
Professor & Head
Department of Clinical Pharmacology
1st Floor, MS Building,
Seth GS Medical College & KEM Hospital
Parel, Mumbai - 400 012.

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1. Purpose

The purpose of this Standard Operating Procedure (SOP) is to outline the procedure for estimation of Alkaline Phosphatase (ALP) on minichem ARK Diagnostics in the Biochemistry lab of Department of Clinical Pharmacology

2. Scope

This SOP covers the procedure of estimation ofAlkaline Phosphatase (ALP) on minichem ARK Diagnostics.

3. Responsibility

Lab technician, Lab attendant, or any other appropriately qualified staff in the team, designated by the Head of Department, will be responsible for analysis.

4. Reference

- Departmental SOP no 10/05: Blood collection.
- Departmental SOP no 24/04: Waste management.
- Biochemistry labs SOP no 01/01: Analysis on minichem ARK diagnostics.
- Kit inserts

5. Detailed instructions

1. The whole blood sample is collected and processed as per SOP no. 01/03.
2. Remove the Spin react reagent kit kept in the **Refrigerator**[between 2-8 degree Celsius] located in the main Biochemistry laboratory of Department of Clinical Pharmacology, M.S. Building, 1st Floor. Verify the expiry date before using the kit.
   Use kit: Spin react ALP Kit,
3. As per SOP no. 10/03 for Biochemistry analysis on minichem ARK Diagnostics, select the parameter 'ALP' and set the machine for measurement of the sample.
4. As per the reagent kit insert, to 10 µl of the sample add 480 µl of reagent 1 and 120 µl of reagent 2.

5. After addition of the reagents, immediately aspirate the test solution through the sipping tube by pressing the button behind the tube.
6. The machine will give a beep sound and will continue with the measurement of the concentration for a period of 120 seconds.
7. After the delay time of 120 seconds, the machine will beep and will display the absorbance followed by the reading.
8. Values are entered in the report, evaluated and signed by the biochemist /laboratory in-charge, Study-coordinator and PI.
9. Once the ALP parameter is completed for all samples, aspirate distilled water for washing purpose.
10. After washing is completed, switch off the adaptor and then switch off the main switch.
11. Samples are discarded as per departmental SOP no. 24/02 (SOP of waste management).