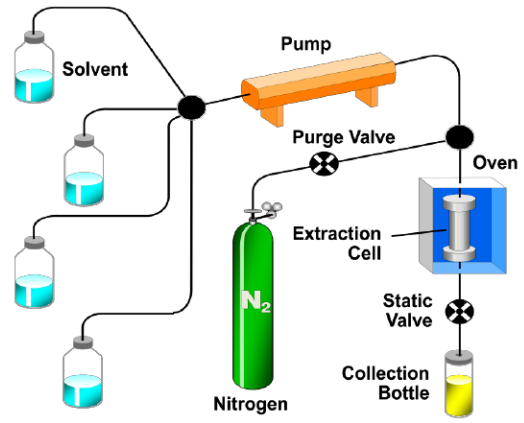


Name of Machine	Accelerated Solvent Extractor (ASE)
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Make Thermo Scientific	Model Dionex 350
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Specification

Oven: Temperature control: up to 200 °C.
 Pump: Fluid delivery pressure: 10 MPa (1500 psi).
 Pump flow: 70 mL minute
 Fluid Sensors: IR sensors detect fluid level during extract collection.
 Cell Tray: 24 cell positions, two rinse positions Automatic home position.
 Extraction Fluids: Compatible with a wide range of organic and aqueous solvents

Working principle:

Accelerated solvent extraction is a technique for extracting organic compounds from solid and semisolid samples with liquid solvents. Dionex ASE systems use organic and aqueous liquid solvents at elevated temperatures and pressure to increase the efficiency of the extraction process. Increased temperature accelerates the extraction kinetics, and elevated pressure keeps the solvent liquid above its boiling point, ensuring safe, rapid extractions. Additionally, the pH-hardened pathway allows the extraction of matrices that are pretreated with acids or bases.

Application

Dionex ASE 350 instruments meet the requirements for extraction under US EPA SW-846 Method 3545A for Pressurized Fluid Extraction. Accelerated solvent extraction technique replaces Soxhlet, sonication, wrist shaking, and other extraction techniques, and uses less solvent and less time.

User Instruction

The powdered sample amount should be approximately 30 gm (finer than 100 mesh) and should be properly labeled and packed without any contamination.
 Solid samples will be charged extra for crushing and grinding.
 Details (eg. Location, depth etc..) of the samples should be provided in the application.
 If available, TOC values should be provided.
 Please make available the analysis related publications to expedite the sample preparation related protocols.
 Explosive, poisonous and any hazardous sample giving rise to toxic gases/fumes cannot be undertaken for analysis.

Contact Person			
In-Charge	Dr.Anupam Sharma (0522-2742974); anupam.sharma@bsip.res.in		
Staff:	Dr. R.P.Mathews (0522-2742930); runciepaulmathews@gmail.com		
	Dr.Manoj M.C.(0522-2742946); manoj.mcm@gmail.com , manoj_mc@bsip.res.in		
charges			
Instrument/ Analysis (ASE Lab)			
Student Charges	500.00		
Govt. Organization (University/Research Institutes)	750.00		
Private sector/Industry	1000.00		
Remarks (if any) (Rates quoted = Rs.)			
Guideline			
<ol style="list-style-type: none"> 1. The analytical data/spectra provided cannot be used as certificates in legal disputes. 2. Service charges (including GST) will be payable in advance (Draft/RTGS/NEFT) in favour of “The Director, BSIP, Lucknow”. Payable at Lucknow 3. Separate samples should be sent for different analysis. Samples will not be analysed until payment is received. 4. In case of prepared samples, the user must specify the procedure that how the sample was prepared (complete methodology). 5. In all correspondence related to analysis, our reference number must be mentioned. 6. Individual Scientists and Research fellows should send their application and samples through their project head. Discount in analysis charges for research fellows of universities/institutes will be decided by the Director in consultation with respective lab. 7. Interpretation of data/spectra will NOT be done. 8. It is mandatory for user to acknowledge the facility in their research work and communicate the same to the respective laboratory and the Director, BSIP, Lucknow for onward communication to DST, New Delhi. 9. For Lab visit, it is mandatory to take prior appointment from Director, BSIP before your visit. The application should be send through department/Senior official of institution/Company. No deviation will be allowed for the timings. 			
Registration form:			
Sample detail			

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (In-house/sponsored/Govt. organization/private): _____

Number of samples: _____

Sl. No.	Sample ID	Type/Nature of Sample	Quantity	Year of collection	Lat./Long.	Remarks, if any
1						
2						
3						
4						
5						

To be filled in by the user while submitting the form

Job No as ASE CF
Date of submission:

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

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Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (Inhouse/inhouse sponsored/Govt. organization/private): _____

Number of samples: _____

Nature of samples (with details): _____

Scientific Objective of this study: _____

Additional information, if any: _____

Location (Lat & Long): _____

Exposed Section/Trench/Core/Others: _____

(For office use only)

Lab Reference No.:

R.P.C.C./ Registrar : Kindly raise the bill for the above

Total Charges:

Taxes:

Grand Total:

