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Product Name :

Analytical Balance

Product Code :

SLE/LB/07



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Description :

The Analytical Balance is a mechanical beam balance for exact weighings in quantitative analysis, with a capacity of 200 g and a sensitivity of 0.1 mg. A rider moved along its short triangular beam supplies the last fraction of a milligram, and a fully glazed wooden case shields the stirrup-hung pans from draughts and dust.

Analytical beam balance specifications

Parameter	Detail
Capacity	200 g
Sensitivity	0.1 mg
Beam	Short triangular beam with rider scale
Knife edges	Agate; relieved by extended beam supports when at rest
Pans	Removable, suspended by stirrups from double hooks
Pillar	Highly finished
Complete with	Rider slide and levelling screws
Case	Polished wooden case, fully glazed
Product code	SLE/LB/07
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Quantitative analysis on the analytical balance

Gravimetric estimation of sulphate. Precipitate barium sulphate from the sample solution with barium chloride, filter it, and ignite paper and precipitate in a weighed crucible with lid. Cool the crucible in a vacuum desiccator before every weighing, and repeat heating, cooling and weighing until two results agree.

Standard solution of oxalic acid. Weigh the oxalic acid by difference from a stoppered weighing bottle: weigh the bottle with the crystals, tip a portion into a funnel standing in a volumetric flask, then weigh the bottle again. Dissolve, make up to the mark and work out the exact concentration from the mass delivered.

Sensitivity under load. Find the rest point of the empty balance from the pointer's swings, move the rider by one division and find the new rest point. Repeat with equal masses from the analytical balance mass set on both pans at two or more loads within the capacity, and plot how the sensitivity changes with load.

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