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graph TD; A[Frozen strain] --> B[Strain activation]; B --> C[Seed culture]; C --> D[Fermentation culture]; D --> E[Fermentation Fluid precipitation]; E --> F[Dissolving]; F --> G[Filtration]; G --> H[Precipitation]; H --> I[Centrifugation]; I --> J[Drying]; J --> K[Sieving and crushing]; K --> L[Mixing]; L --> M[Packing]; M --> N[Metal detection (CCP)]; N --> O[Storage]; P[Raw Materials Acceptance] --> Q[Formulate material]; Q --> R[Seed tank sterilization]; R --> C; S[Fermentor sterilization] --> D; T[Ethanol] --> E; U[Perlite] --> F; V[Glacial acetic acid] --> G; W[Ethanol] --> H; X[Ethanol Distillation] --> E; X --> Y[Wastewater discharge]; X --> H; Z[Package Acceptance] --> M;
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The flowchart illustrates the production process, starting with 'Frozen strain' and 'Raw Materials Acceptance'. The process follows a series of steps: 'Strain activation', 'Seed culture', 'Fermentation culture', 'Fermentation Fluid precipitation', 'Dissolving', 'Filtration', 'Precipitation', 'Centrifugation', 'Drying', 'Sieving and crushing', 'Mixing', 'Packing', 'Metal detection (CCP)', and 'Storage'. A side process involves 'Ethanol Distillation', which receives input from 'Fermentation Fluid precipitation' and 'Precipitation', and outputs to 'Wastewater discharge'. A 'Package Acceptance' step is shown before 'Packing'. Various materials are added at different stages: 'Seed tank sterilization' and 'Fermentor sterilization' are added to 'Seed culture' and 'Fermentation culture' respectively. 'Ethanol', 'Perlite', 'Glacial acetic acid', and 'Ethanol' are added to 'Fermentation Fluid precipitation', 'Dissolving', 'Filtration', and 'Precipitation' respectively.