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(Preliminary)

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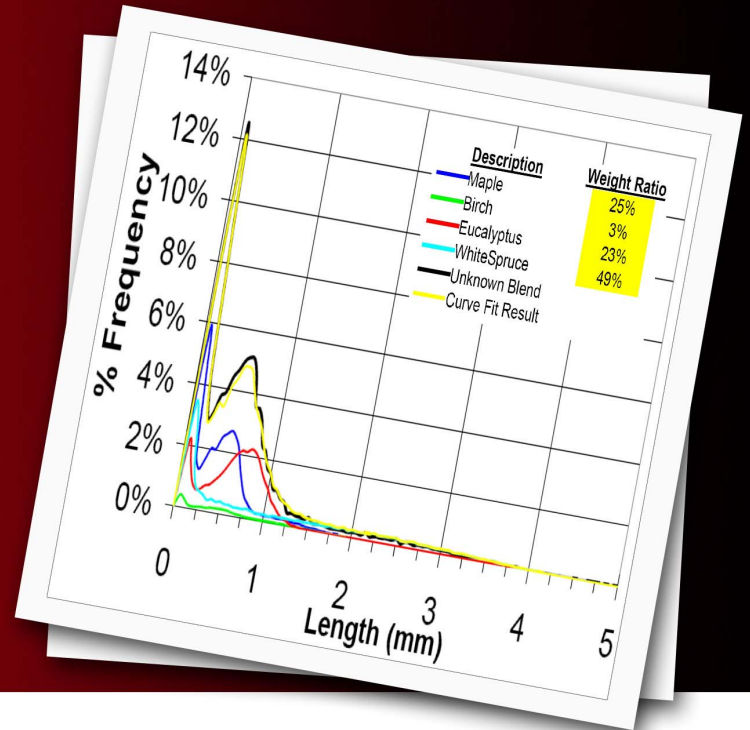
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OpTiBlend Pulp Blending

The OpTiBlend (OTB) estimates the mass ratio of pulp species in an unknown blend.

The software is used in conjunction with data from the HiRes FQA [Code LDA02].



Fiber morphological data of 100% Pure pulp samples, collected by the HiRes FQA, is used in combination with the fiber morphological data of blends with known mass ratio, to estimate the mass ratio of an unknown blend. Up to 5 species components may be estimated to an accuracy approaching 1% by weight.

The OTB software uses the LC Data files from the HiRes FQA. These include files of the 100% Pure pulps, the Blends of known mass ratio and the Unknown Blends. The user selects the 100% Pure and Blends of Known Weight Ratio likely to be in the Unknown Blend. The OTB then uses the size distributions of fiber length and width to perform a proprietary 5-parameter least-squares fit to the length and width distribution of the unknown blend.

SPECIFICATIONS:

Data Source:

- HiRes Fiber Quality Analyzer [Code LDA02] data files are transferred to a desktop computer for analysis by the OTB software

Hardware & Software:

- Pentium Processor, 1+ Ghz, 512+ MB RAM, parallel port, USB 2.0 port and CD drive
- Microsoft Windows™ (7, Vista, XP Pro)
- Microsoft Office™ (2007, XP, 2003)