

## EFFECT OF ACCELERATED AND NATURAL AGEING ON TOTAL SOLUBLE SEED PROTEIN PROFILE OF WHEAT ( *TRITICUM AESTIVUM* )

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**Abstract:** Study was conducted to compare fresh, natural and accelerated seed lots of wheat with germination and vigour index varied from 98.67 to 44.00 and 2960 to 524.92 respectively. Germination loss became more evident in accelerated ageing as compared to fresh and natural aged lot. Total soluble seed protein banding pattern of different aged seed was revealed that there was decline in band intensity, band numbers or disappearance of some bands with ageing. It is more in accelerated aged lot as compared to natural aged seed lot. Thus, seed lot with slight variation in germination or vigor could also be used for varietal characterization by SDS-PAGE to differentiate the cultivars or even for genetic purity testing, but not the seed lots which were severely aged that lost threshold limit of 50 per cent.

**Keywords:** Accelerated ageing, Protein profiles, SDS-PAGE, Wheat seed

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