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Research Article

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Assessment of diastase levels in different floral honey from Oromia region, Ethiopia

Published On: December 31, 2022 | Pages: 024 - 029

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Diastase is an enzyme that is found naturally in honey and degrades over time, especially when exposed to heat. Diastase can be used to indicate the age and exposure of honey to heat. However, they play a very significant role in honey quality. This study aimed to assess the diastase levels of different floral honey in potential areas of the Oromia region. In this stu ...

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Dissipation kinetics and the pre-harvest residue of chlorantraniliprole in pigeon pea *Cajanus cajan* L. succulent pods Using Ultra-High-Performance Liquid Chromatography with Photodiode array detector (UHPLC-PDA)

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Studies were conducted to evaluate insecticide residues of Chlorantraniliprole in pigeon pea succulent pods after foliar application. Chlorantraniliprole was sprayed at 0.6ml/l on pigeon pea crop at the pod formation stage to control pod borers like *Helicoverpa armigera* and *Maruca vitrata*. Samples were drawn at 0, 1, 5, 10, 15, 20, 25, and 30 days after spray. A valid ...

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Regulation of enzymes with identical subunits on the example of Transketolase

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The molecule of transketolase is a dimer with structurally and functionally identical subunits. Its active sites are located in the region of intersubunit contact, which has been shown also for other thiamine enzymes. This leads to the reciprocal influence of active sites in the binding of cofactors and during catalysis. In this review, it is shown that the functional ...

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Mini Review

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Benzofuran and Naphthofuran based chemosensors for metal ion detection using fluorescence spectroscopy

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Author(s): Sonia Ali, Sakshi Joshi and Jyoti Agarwal*

With the advancement in the field of agriculture and industrial regime, numerous metals such as lead, cadmium, mercury, zinc, copper, arsenic, etc. are released into the environment as effluent. These metal ions enter water bodies and generate many health issues. Considering their harmful impact on human lives, numerous fluorescent probes have been developed in recent ...

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Adsorption of Pb²⁺ ions in aqueous media using the new zeolite nanocomposite adsorbent CaO/CdO/ZSM5 synthesized with new techniques

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ZSM-5 is a porous zeolite material that reveals good activity for the adsorption of heavy metals and other contaminants for effluent purification. In this scientific research, we synthesized the novel CaO-CdO/ZSM-5 zeolite nanocomposite adsorbent and studied the effects of different parameters on the adsorption of Pb²⁺ ions from water media for the first

time. About ...

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